

• OFFERING THE BEST

PPE SOLUTION AT THE BEST PRICE

From the most technical need to the most standard, Delta Plus offers PPE solutions offering the best adaptation to the work area.



LISTEN TO THE USER









EVALUATE RISKS AND NEEDS

THE CUSTOMISED PPE SOLUTION

To easily find the best PPE solution: There are 3 lines of research needed



ANTISTATIC



NOISE





SHOCK



FALL





CUTTING/ PERFORATION WEATHER

COLD/



SLIP



CHEMICAL











UV/IR

ELECTRICAL

HIGH VIS

5-9	AGRICULTURE/GREEN AREAS	Farmers - Woodcutters - Gardeners
B	CONSTRUCTION/ CIVIL ENGINEERING	Structural work - Construction



SECOND WORK/CRAFTSMAN

Electricians - Plumbers - Heating specialists - Painters ...



HEAVY INDUSTRY

Metal construction - Petrochemical ...



LIGHT INDUSTRY

Automotive - Aerospace - Industrial Subcontracting ...



SERVICES/LOGISTICS

Logistics - Transportation - Airport - Distribution ...



HYGIENE ENVIRONMENT

Food industry - Pharmacy - Hospitals - Restaurants Communities ..



OIL/GAS

Petrochemical industry - Refinery - Off shore - Exploration



MINING Mines (exploration, extraction ...) - Stone-pit



WIND ENERGY

PREMIUM

High Tech products for specialised uses

EVOLUTION

Powerful multi-purpose products

ESSENTIAL

Standard multi-purpose products

SUMMARY THE GLOBAL OFFER

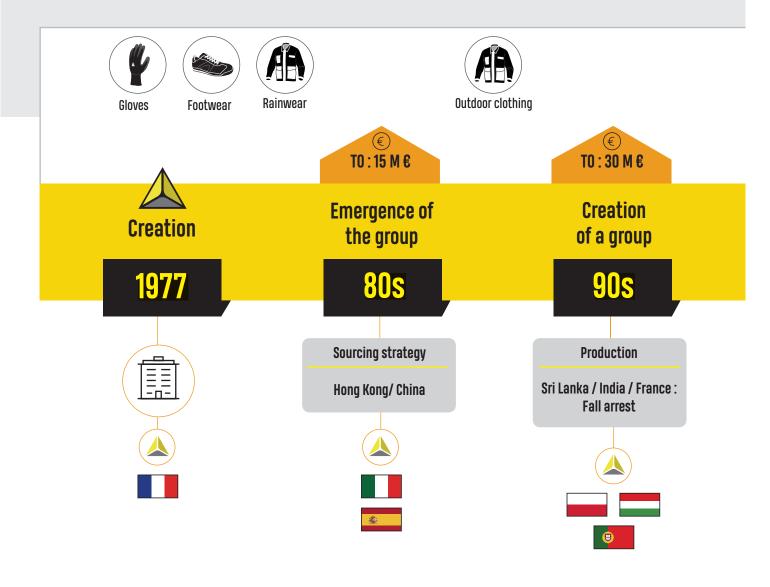
001 • HEAD PROTECTION 066 • HAND PROTECTION 140 • DISPOSABLE WEAR 160 • WORK WEAR 204 • OUTDOOR WEAR 244 • TECHNICAL WEAR 268 • FOOT PROTECTION **308 • FALL PROTECTION 374** • PACKAGING 376 • MERCHANDISING 380 • ALPIC - DPG TRAINING **381 - TECHNICAL INFORMATION** 409 • GLOSSARY



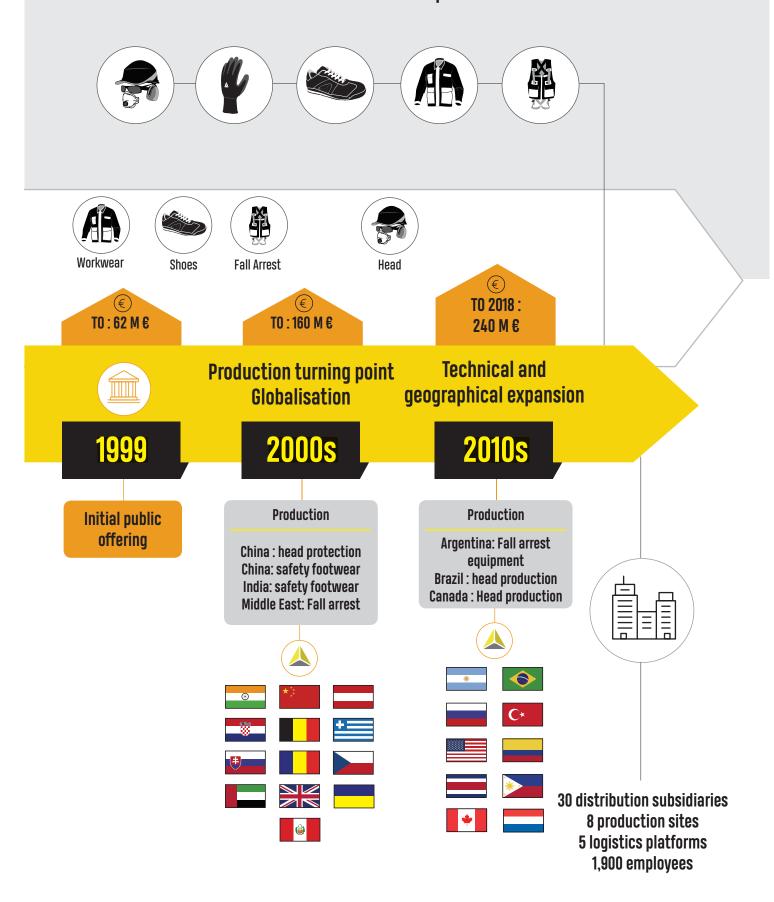
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DELTA PLUS A DYNAMIC HISTORY

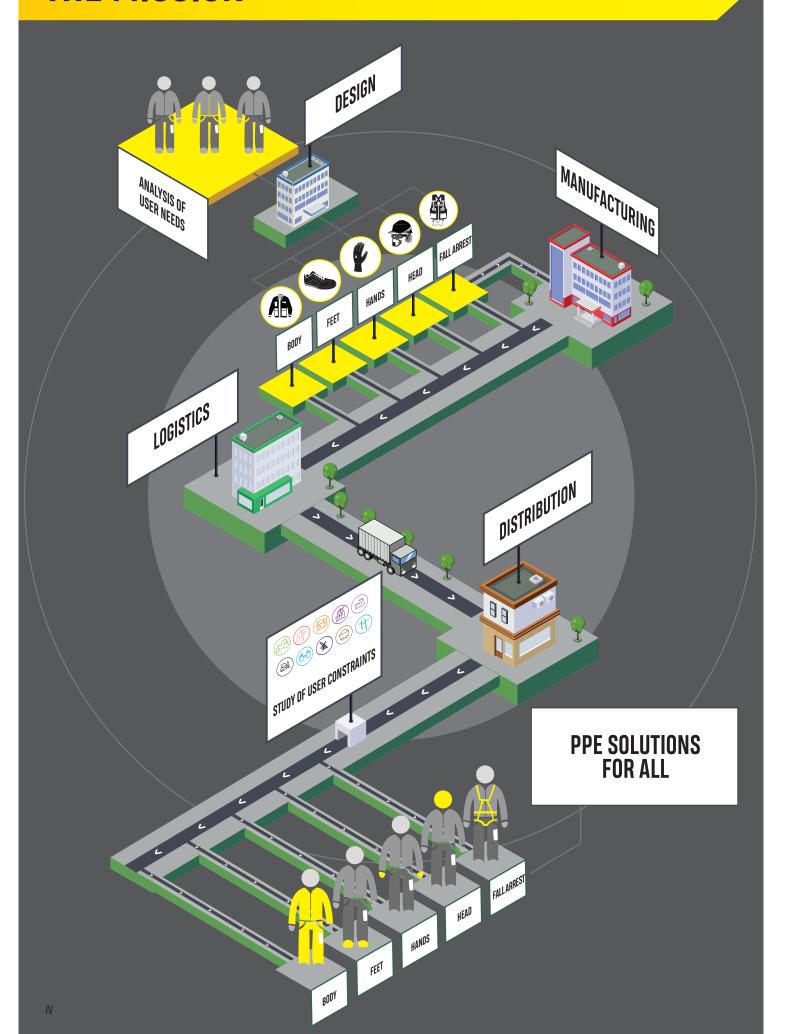
Delta Plus's mission is to protect the man at work. To achieve it, the **Delta Plus team** has mobilized its know-how, its imagination, adaptability and pioneering spirit for over 40 years.



Head to toe for all: 5 families of products



DELTA PLUS THE MISSION



THE MULTI-SPECIALIST BRAND -

SUPPLY

A UNIQUE DIFFERENTIATED OFFERING AROUND
THE CONCEPTS "VALUE PRODUCTS" AND
GLOBAL OFFER

SERVICE

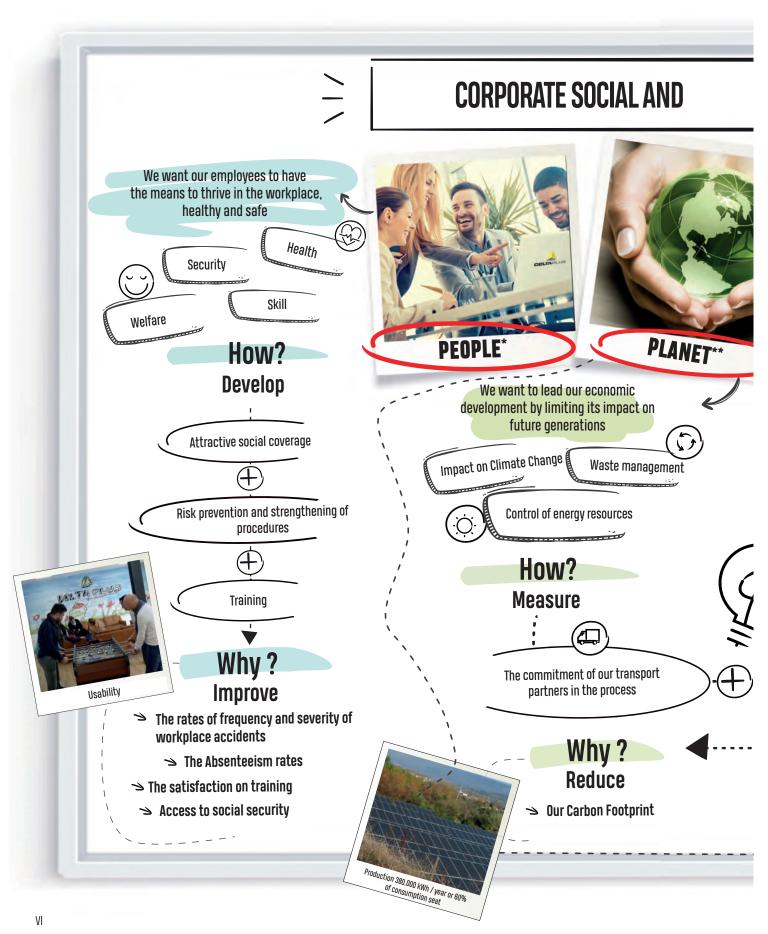
A SERVICE THAT SETS A STANDARD IN THE PROFESSION



CUSTOMER PROXIMITY WITH THE DAILY SUPPORT OF DISTRIBUTORS AND USERS THROUGH OUR EXPERTS.

DELTA PLUS THE CSR APPROACH

Building on 10 years of commitment, we are intensifying our efforts to improve our impact on society and the environment. In addition, we obtained ISO14001 certification level 1 in 2018.





DELTA PLUS NEAR YOU









TRAINING HOTLINES JOINT VISITS

TECHNICAL CONSULTATION



A GLOBAL DISTRIBUTION NETWORK: THE DELTA PLUS OFFER ACCESSIBLE ANYWHERE



30 distribution subsidiaries

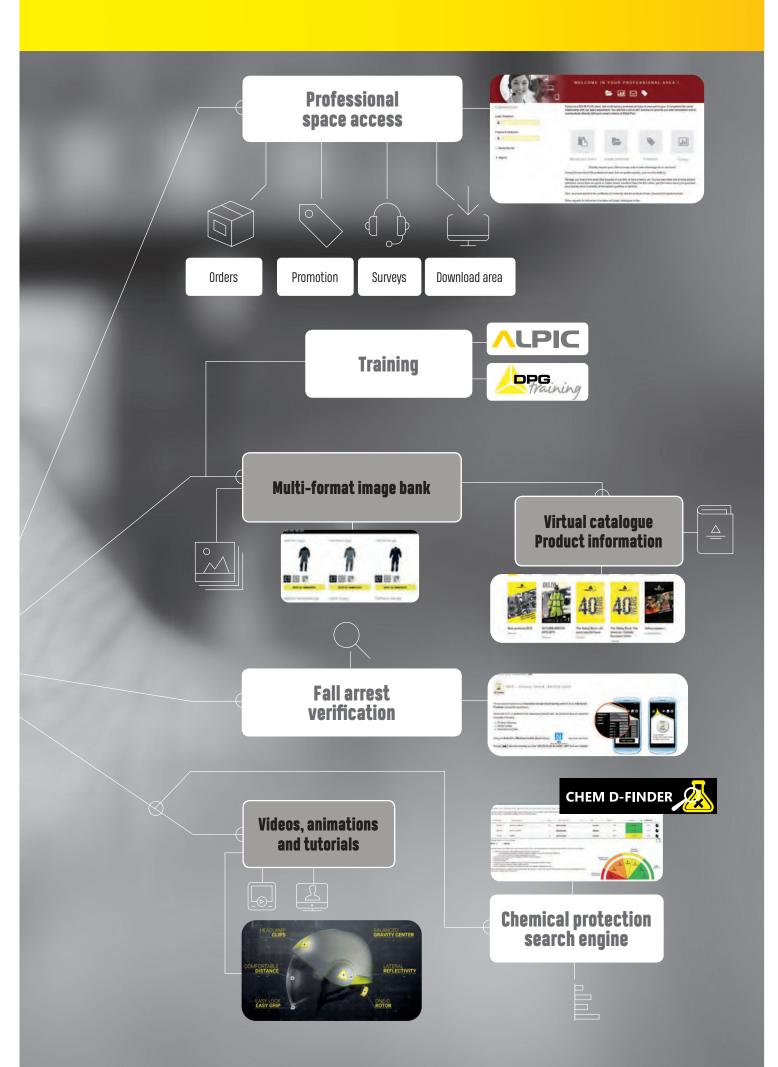


Our Products are in more than 140 countries



DELTA PLUS THE WEBSITE





DELTA PLUS AN INNOVATIVE OFFERING

Delta Plus offers **PPE solutions that provide the best fit** for the workplace, from the most technical to the most standard requirements







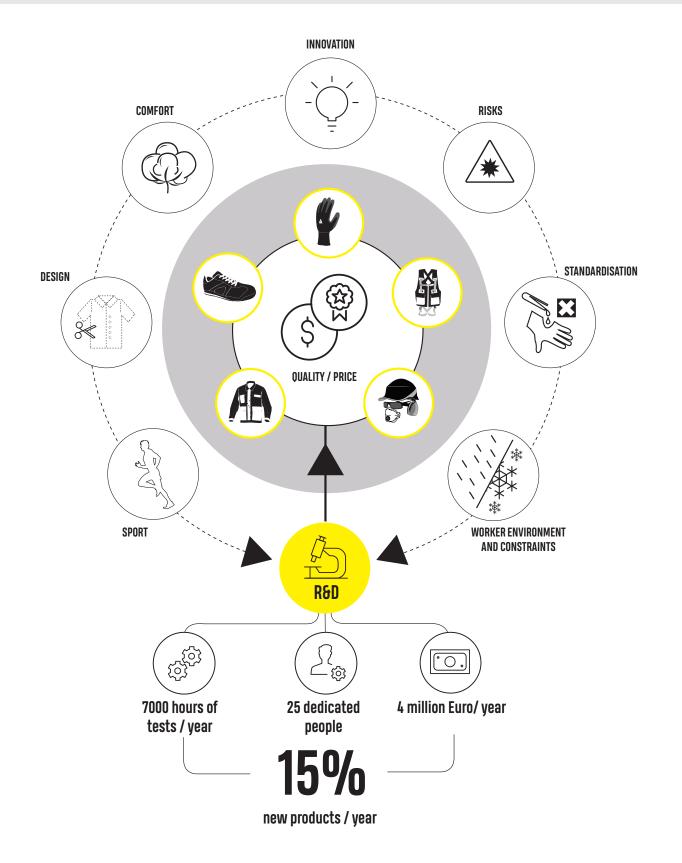




Listening to the customer

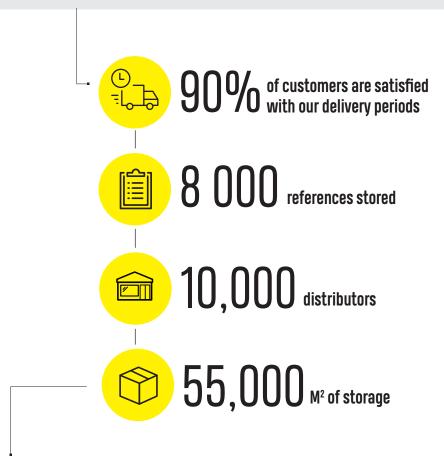
Estimating his risks and needs

The right PPE solution



A SUCCESSFULLY INTEGRATED SUPPLY CHAIN

Through this organisation, **DELTA PLUS offers you access to its range wherever you are in the world** with the most efficient service level on the worldwide PPE market.



EUROPE 30,000 M²



3 logistics platforms

- France (Apt)
- Poland (Siemianowice Śląskie)
- United Kingdom (Manchester)

2 intermediate warehouses

- Croatia (Zagreb)
- Greece (Markopoulo Attica)

OUTSIDE EUROPE 10.000 M²



12 intermediate warehouses

- Argentina (Buenos Aires)
- Brazil (Sao Paulo)
- Canada (Toronto)
- Colombia (Bogota)
- Peru (Lima)
- Costa Rica (San José)
- USA (Shelton CT)
- Philipines (Manila)
- United Arab Emirates (Dubai)
- Russia (Moscow)
- Ukraine (Kiev)
- Turkey (Istanbul)

ASIA 15.000 M²



2 logistics platforms

- China (Wujiang)
- India (Calcutta)
- Deliveries on the 2 local markets
- Intermediate storage of production
- Optimisation of lead times for European platforms
- Direct shipments of complete multi-product containers worldwide

MADE IN DELTA PLUS

Delta Plus's organisation enables it to develop its ranges by optimising its industrial strategy, between its **8 production sites** and its partner's factories.



QUALITY AND INTEGRATED OR CONTROLLED PRODUCTION

Delta Plus ensures the quality and manufacturing control of its products whether in their own factories or their partners' by imposing:

- Compliance with their common manufacturing charter
- The constraints of their technical specifications
- A series of ongoing tests and the end of production (our internal laboratories have a fleet of almost 200 machines and test equipment)

All the group production sites operate under the certified quality system ISO 9001.

All the concerned sites are certified according to the module D of the European Regulation 2016/425 (PPE Category III disabling or fatal risks).

An increasingly integrated manufacture:





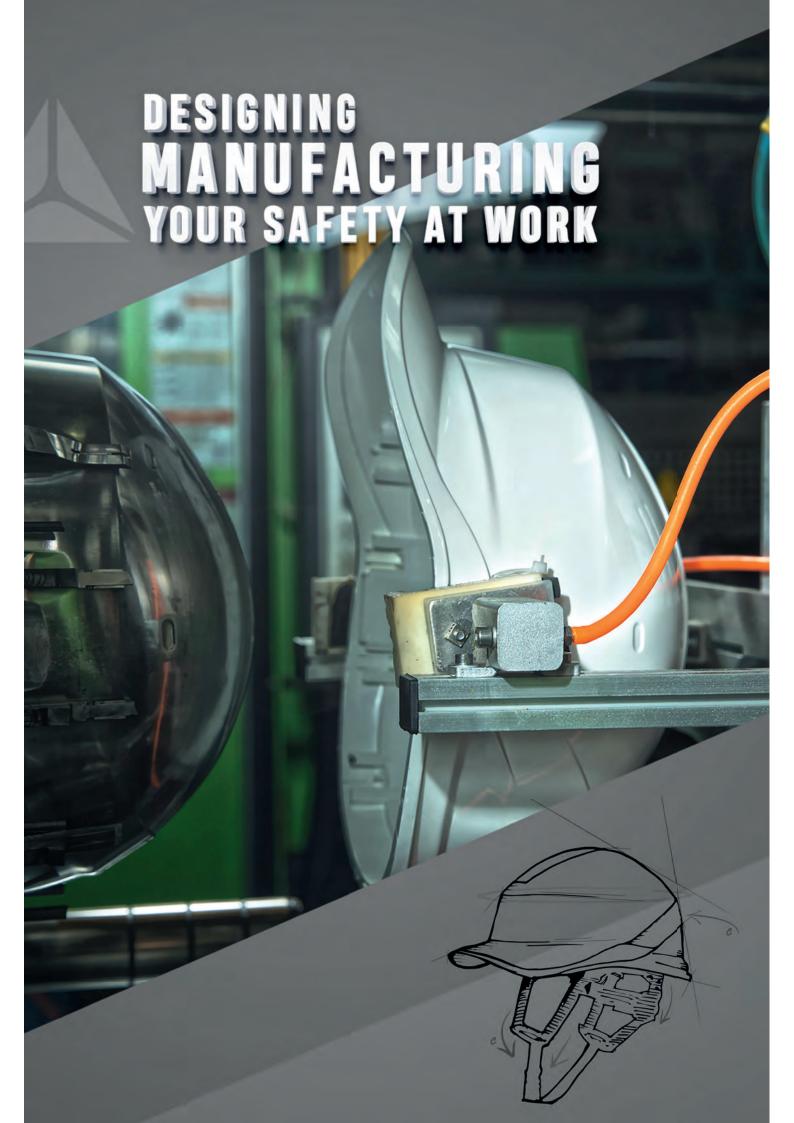












HEAD PROTECTION



EYEWEAR PROTECTION

- 004 Safety glasses Help with choice
- 005 Safety glasses
- 020 Safety goggles
- 022 Welding Help with choice
- 023 Welding
- 026 Safety visors- Help with choice
- 027 Safety visors

SKULL PROTECTION

- 032 Safety helmets Help with choice
- 033 Safety helmets
- 041 Helmets accessories Marking
- 042 Bump cap

HEARING PROTECTION

- 044 Ear defenders Help with choice
- 045 Ear defenders
- 049 Reusable earplugs
- 050 Disposable earplugs

RESPIRATORY PROTECTION

- 052 Help with choice
- 054 Disposable respiratory
- 061 Reusable respiratory

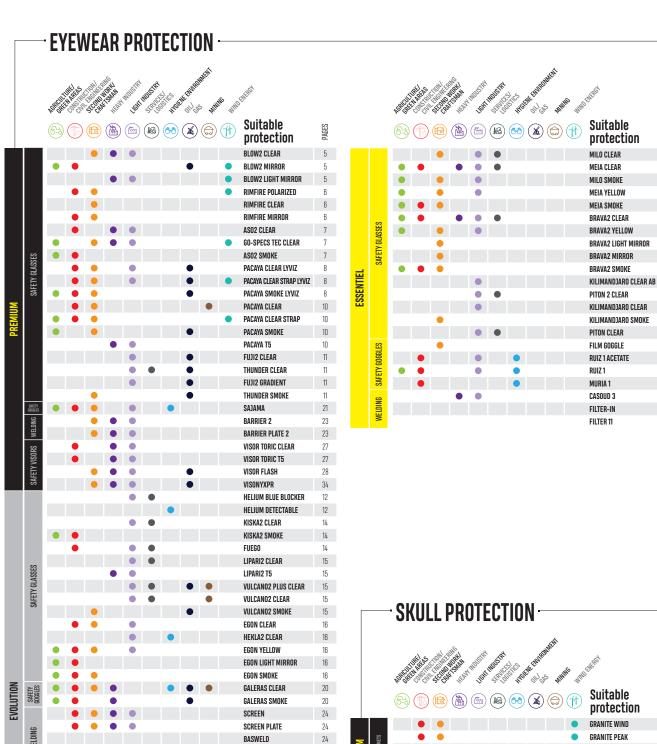
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SAFETY VISORS

HELP WITH CHOICE



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VISORPC

VISORG

BALBI 2 VISOR-H

PICO 2

VISOR-U Visor-Hold Mini

VISOR T-GUARD

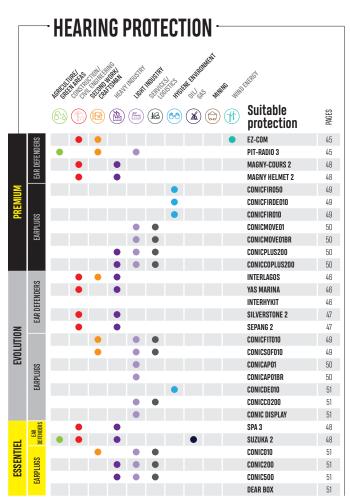
VISORPC MINI

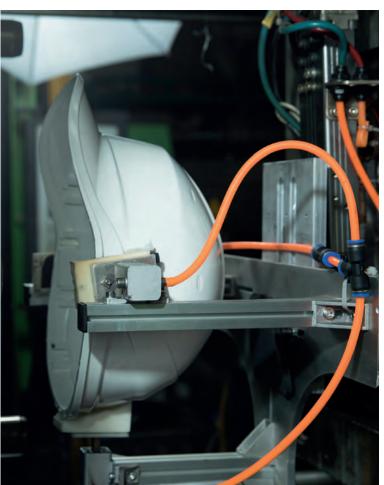
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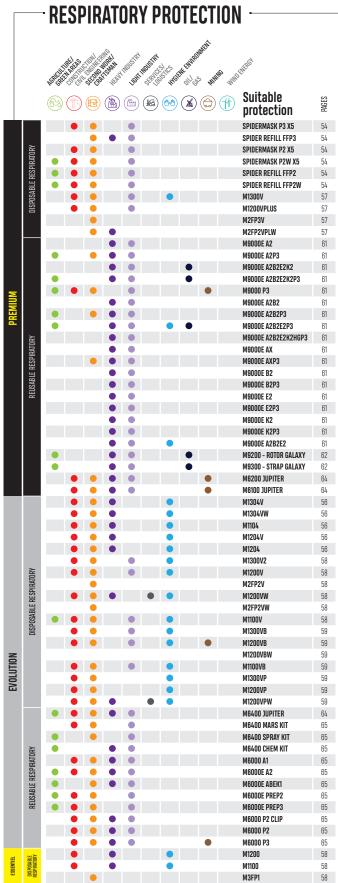
VISOR HOLDER











EYEWEAR PROTECTION

HELP WITH CHOICE



— Glasses

- INDOOR

 OUTDOOR

 OUTDOOR / INDOOR

												*≜ OUTD	
		BLOW2 CLEAR	BLOW2 MIRROR	BLOW2 LIGHT MIRROR	RIMFIRE CLEAR	PREMIUM RIMFIRE POLARIZED	RIMFIRE MIRROR	ASO2 CLEAR	ASO2 SMOKE	GO-SPECS TEC CLEAR	PACAYA CLEAR LYVIZ	PACAYA CLEAR STRAP LYVIZ	PACAYA SMOKE LYVIZ
		(C)						S					
	EN170												
H	EN172		*			*	*		*				*
H	ANSI Z87.1				+	+	+	+	+	+	+	+	+
					PREMIUM						EVOLUTION		
		PACAYA CLEAR	PACAYA CLEAR STRAP	PACAYA SMOKE	FUJI2 CLEAR	FUJI2 Gradient	THUNDER CLEAR	THUNDER SMOKE	HELIUM Blue blocker	HELIUM DETECTABLE	KISKA2 CLEAR	KISKA2 SMOKE	FUEG0
							4)						
	EN170												
	EN172			*		*4		*				*	
166	ANSI Z87.1	+	+	+	+	+			+	+			
EN166	ANSI Z87.1	+	+	+	+				+	+		ESSENTIAL	
EN166	ANSI Z87.1	EGON CLEAR	EGON LIGHT MIRROR	EGON SMOKE	EGON YELLOW	EVOLUTION LIPARI2 CLEAR	HEKLA2 CLEAR	VULCANO2 PLUS CLEAR	VULCANO2 CLEAR	VULCANO2 SMOKE	MILO CLEAR	ESSENTIAL MILO SMOKE	MEIA CLEAR
EN166	ANSI 287.1	EGON	EGON	EGON		EVOLUTION LIPARI2	HEKLA2 CLEAR	VULCANO2 PLUS CLEAR			MILO CLEAR		MEIA CLEAR
EN166	ANSI 287.1 EN170	EGON	EGON	EGON		EVOLUTION LIPARI2	HEKLA2 CLEAR	VULCANO2 PLUS CLEAR			MILO CLEAR		MEIA CLEAR
EN166	EN170 EN172	EGON CLEAR	EGON LIGHT MIRROR	EGON SMOKE	EGON YELLOW	EVOLUTION LIPARIZ CLEAR			VULCANO2 CLEAR	VULCANO2 SMOKE	S		MEIA CLEAR
EN166	EN170	EGON CLEAR	EGON LIGHT MIRROR	EGON SMOKE	EGON YELLOW	EVOLUTION LIPARIZ CLEAR			VULCANO2 CLEAR	VULCANO2 SMOKE	S	MILO SMOKE	MEIA CLEAR
EN166	EN170 EN172	EGON CLEAR	EGON LIGHT MIRROR	EGON SMOKE	EGON YELLOW	EVOLUTION LIPARI2 CLEAR		+	VULCANO2 CLEAR	VULCANO2 SMOKE	S	MILO SMOKE	MEIA CLEAR
EN166	EN170 EN172	EGON CLEAR	EGON LIGHT MIRROR	EGON SMOKE	EGON YELLOW	EVOLUTION LIPARI2 CLEAR		+	VULCANO2 CLEAR	VULCANO2 SMOKE	S	MILO SMOKE	MEIA CLEAR PITON CLEAR
EN166	EN170 EN172	EGON CLEAR	LIGHT MIRROR +	EGON SMOKE	EGON YELLOW	EVOLUTION LIPARI2 CLEAR	ESSET	+ ************************************	VULCANO2 CLEAR	VULCANO2 SMOKE	•	MILO SMOKE	•
EN166	EN170 EN172	EGON CLEAR + MEIA SMOKE	LIGHT MIRROR +	EGON SMOKE	EGON YELLOW	EVOLUTION LIPARI2 CLEAR	ESSET	+ WITAL BRAVA2 SMOKE	VULCANO2 CLEAR	VULCANO2 SMOKE	•	MILO SMOKE	•
EN166	EN170 EN172 ANSI Z87.1	EGON CLEAR	EGON LIGHT MIRROR + MEIA YELLOW	EGON SMOKE * + BRAVA2 CLEAR	EGON YELLOW + BRAVA2 YELLOW	EVOLUTION LIPARI2 CLEAR + BRAVA2 LIGHT MIRROR	ESSET	+ ************************************	VULCANO2 CLEAR + KILIMANDJARO CLEAR	VULCANO2 SMOKE * + KILIMANDJARO CLEAR AB	•	MILO SMOKE	•

— Goggles

	PREMIUM		EVOLUTION			ESSENTIAL	
	SAJAMA	GALERAS CLEAR	GALERAS SMOKE	TACANA SPORT	RUIZ1 ACETATE	RUIZ1	MURIA1
EN166							
	**	**	*	*4	*4	*4	**
ANSI Z87.1		+	+				

All our polycarbonate glasses filter 99.9% of UV A, B or C (130 - 300 nm). Our UV400 glasses filter up to 400 nm.

SAFETY GLASSES





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BLOW2 CLEAR	Clear			EN170 UV 2C-1.2		
BLOW2 MIRROR	Missa	2 in 1 polycarbonate glasses - Interchangeable arms/Elastic. Twin material curved arms. Removable foam. Wide field of vision.	C € EN166 1 FT / FT	EN172 UV 5-3.1	38 g	x 100
BLOW2 LIGHT MIRROR	Mirror			EN170 UV 2C-1.7	•	

BLOW2 CLEAR

















Ventilation →Minimises fogging



Tilting arms

→Perfect fit to the shape of the face





Removable foam protection →Very good sealing in dusty environments

⇒Increased comfort in case of shock



Interchangeable attachment :

Arms/Elastic

⇒Suitable solution for any type of work environment

BLOW2 LIGHT MIRROR





BLOW2 MIRROR

















- EYEWEAR PROTECTION

SAFETY GLASSES

	æ	o ^o			\checkmark			<u></u>	
RIMFIRE POLARIZED	Polarized				EN172 5-3.1		ANSI Z87.1 Z87+ U6 L3		
RIMFIRE MIRROR	Mirror	Polycarbonate glasses. Sport design. Polycarbonate frame with matt finish for better comfort and durability.	CE	EN166 1 F / F	EN172 5-3.1	ANSI	207+ 00 L3	28 g	x 100
RIMFIRE CLEAR	Clear				EN170 2C-1.2		ANSI Z87.1 Z87+ U6		•

RIMFIRE POLARIZED

















FlexGrip™ nasal bridge
→Optimised comfort
→Perfect fit for all body types



Polycarbonate frame with matte

⇒Better comfort and reinforced







Without polarised lenses

Polarised glasses ⇒Reduction of glare and reflections from reflective surfaces (road, water, snow...)

RIMFIRE MIRROR

RIMFIRE CLEAR







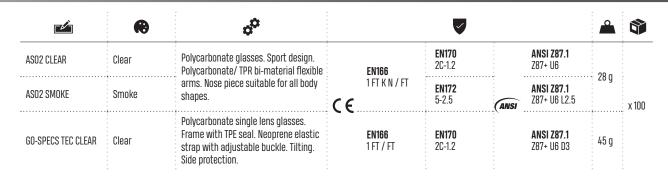












ASO2 SMOKE **ASO2 CLEAR** D-PAD technology Optimised comfort Perfect fit for all body types Curved eyepiece →Maximum protection Bi-material sports section light and ightharpoons Extended field of view comfortable ightharpoonsIncreased comfort ⇒Very good hold on the head (or on a helmet)

GO-SPECS TEC CLEAR























Ergonomic hybrid solution ➡ldeal alternative to eye masks: more compact, lighter, more comfortable



Flexible TPE seal ➡Protects against solid or liquid projections





Indirect ventilation →Minimises the appearance of mist



→Perfect fit to the shape of the face

Neoprene strap

- → Resistance to chemical projections
- **⇒**Washable

UV filtration A, B and C at 99.9% (130-380 nm) Reinforced impact resistance



EYEWEAR PROTECTION SAFETY GLASSES







	€	o [©]		\checkmark		<u></u>	*
PACAYA CLEAR LYVIZ	*		•	EN170	•	36 g	
PACAYA CLEAR STRAP LYVIZ	Clear	Polycarbonate single lens glasses. Integrated polycarbonate nose piece. Adjustable nylon	C € EN166	UV 2C-1.2	(ANSI Z87.1 787+	41 g	x 100
PACAYA SMOKE LYVIZ	Smoke	arms. Side protection.		EN172 UV 5-3.1		36 g	

PACAYA CLEAR STRAP LYVIZ





















PACAYA SMOKE LYVIZ























Removable foam protection Very good sealing in dusty environments

⇒Increased comfort in case of shock



Tilting arms
→Perfect fit to the shape of the



https://www.youtube.com/watch?v=-q64s0Ll9l4





The safety spectacles are always clean thanks to the LyViz™ treatment!

PACAYA CLEAR LYVIZ





















Coating Ole<mark>opho</mark>bic Hydrophobic by Delta Plus



LyViz treatment : hydrophobic and oleophobic coating

⇒Clean eyes guaranteed for longer

- → Reinforced anti-scratch treatment

Helps workers see their task clearly to ensure their safety at work.



Highly oleophobic & hydrophobic the contact angle remains greater than 105°



More resistance to abrasion 20%> regular test



Ultra-low vapour effect less than 0.11% increase in fog after abrasion



Dirty protective eyewear risks becoming unworn protective eyewear and thus expose the user to a risk. We have developed an innovative LyViz™ treatment that keeps the eyepiece cleaner longer and makes it easier to clean.

Marie Pourcher, Head Protection Product Expert



EYEWEAR PROTECTION

SAFETY GLASSES

	•	o [©]		Y		_	
PACAYA CLEAR	Cloor			EN170		36 g	
PACAYA CLEAR STRAP	- Clear	Polycarbonate single lens glasses. Integrated		UV 2C-1.2	ANSI Z87.1	41 g	
PACAYA SMOKE	Smoke	polycarbonate single lens glasses. Integrated polycarbonate nose piece. Adjustable nylon arms. Side protection.	C € EN166 1FT/FT	EN172 UV 5-3.1	201*	36 g	x 100
PACAYA T5	Shade 5			EN169 UV 5		32 g	

PACAYA CLEAR















PACAYA CLEAR STRAP

























⇒Increased comfort in case of shock



Tilting arms
→Perfect fit to the shape of the face

PACAYA T5















PACAYA SMOKE





















FUJI2 CLEAR

FUJI2 GRADIENT

























Non-slip rubber sections

- ⇒Increased comfort
- ►Very good hold on the head (or on a helmet)



Without mount in lower part ⇒No visual discomfort



Extra flexible TPE nose bridge

- ⇒Optimised comfort
- ⇒Perfect fit for all body types







THUNDER CLEAR



















Extra comfort soft

- ⇒Increased comfort
- →Very good hold on the head (or on a helmet)



Nasal bridge TPE soft extra comfort

- →Optimised comfort
 →Perfect fit for all body types

















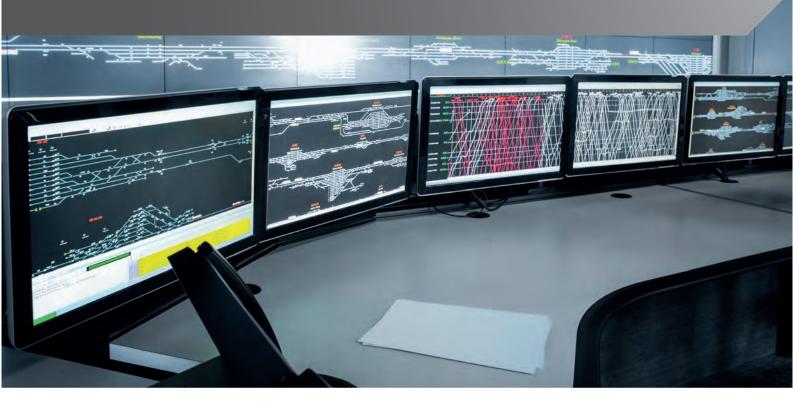








- EYEWEAR PROTECTION SAFETY GLASSES



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HELIUM BLUE BLOCKER	Brown	Ultra light polycarbonate single lens glasses. Extra fine frame. Suitable for long duration	C C EN166	EN170 2C-1.4	ANSI Z87.1 Z87+ U6 L1.5		v 100
HELIUM DETECTABLE	Blue	extra fine frame. Sultable for long udration wear.	C € EN166 1FT/FT	EN170 UV 2C-1.2		10 Y	x 100

HELIUM DETECTABLE

















Metallically charged blue frame visually detectable by X-ray and magnetism →Suitable for the food industry

Blue tint with excellent transmission factor

⇒Comfortable for indoor use





Extra fine frame

⇒Compatibility with noise cancelling headphones Eyepiece that filters 65% of blue light to protect the eyes from the harmful radiation from screens —Reduction of eye strain

Ultra-light : 15 g





Ideal for demanding workers who do not like to wear heavy and bulky PPE.

HELIUM BLUE BLOCKER





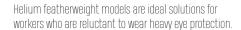










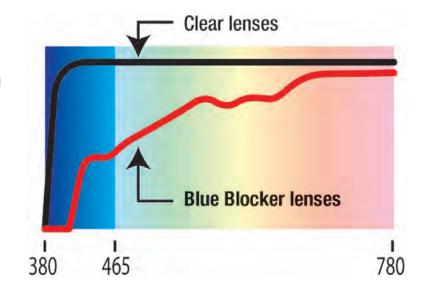






Ergofit ultra-flat sections feature particles with magnetic properties that are detectable and compatible with the simultaneous wearing of hearing protectors and other

The blue-violet light (between 380 and 465 nm) present in the solar spectrum and emitted by screens or LEDs to which we are more and more exposed, generates harmful effects on the retina and the macula. The shade of these glasses is designed to filter 65% of the blue light while transmitting more than 65% of the visible light and is an excellent compromise for your protection and your eyes.





Lightness and ergonomics are two axes of product development that are used more and more by users. PPE must allow itself to be forgotten to be worn all day without any discomfort. The Helium with its enveloping design and weight of 15g can be forgotten. We chose to make it even more efficient with two innovative functions on the market: blue light filtration and detection.

Marie Pourcher, Head Protection Product Expert

EYEWEAR PROTECTION

SAFETY GLASSES

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KISKA2 CLEAR	A2 CLEAR Clear Ultra light one-piece polycarbonate glasses, Extra fine rimless frame and		0		EN170 UV 2C-1.2		
KISKA2 SMOKE	extra soft polycarbonate nose bridge. Suitable for long duration wear.		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		EN172 UV 5-3.1	- 20 g	•
FUEGO	Clear	Clear polycarbonate single lens glasses to use as an accessory for safety helmet. Wraparound design for maximum protection. Folding system in the helmet when it is not used, for intermittent use. Very convenient. Branches foldable for easy positioning in the helmet. Suitable for our range of safety helmet.	C€	EN166 1 FT / FT	EN170 UV 2C-1.2	34 g	x 100

KISKA2 CLEAR















Non metallic hinge



Extra soft nose bridge



KISKA2 SMOKE











Extra fine metal free frame Ultra lightweight frame Ultra-light : 20 g

FUEGO





















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LIPARI2 CLEAR	Clear			EN166	EN170 UV 2C-1.2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0/ =	
LIPARI2 T5	Shade 5	Polycarhonate single lens glasses. Adjustable		1FT/FT	EN169 UV 5			34 g	
VULCANO2 PLUS CLEAR	Olean	Polycarbonate single lens glasses. Adjustable and tilting nylon arms. Spatula tips. Integrated TPE nose piece. Side protection.	CE	EN166 1 FT K N / FT	EN170 UV 2.C-1.2	ANSI	ANSI Z87.1 Z87+		x 100
VULCANO2 CLEAR	Clear		•	EN166	EN170 UV 2C-1.2	• • • • • • • • • • • • • • • • • • • •		26 g	
VULCANO2 SMOKE	Smoke			1FT/FT	EN172 UV 5-3.1				•

LIPARI2 CLEAR













LIPARI2 T5















VULCANO2 PLUS CLEAR





















VULCANO2 CLEAR



















VULCANO2 SMOKE

















- EYEWEAR PROTECTION

SAFETY GLASSES

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EGON CLEAR	Clear				EN170			
EGON YELLOW	N YELLOW Yellow Ergonomic glasses. Polycarbonate lens. Sport look. Twin material arms. Extra comfort soft TPE			UV 2C-1.2	ANSI Z87.1			
EGON LIGHT MIRROR	Mirror	look. Twin material arms. Extra comfort soft TPE nose piece.	<i>C C</i> EN166		EN170 UV 2C-1.7		32 u	v 100
EGON SMOKE			1FT/FT	EN172 UV 5-3.1		02 g		
HEKLA2 CLEAR	Clear	Single lens polycarbonate over glasses. Side shields. Integrated polycarbonate nose piece. Flexible polycarbonate arms. Suitable for all types of prescription glasses.			EN170 UV 2C-1.2			

EGON CLEAR

















Side shields



Extra supple sections



Nasal bridge TPE soft extra comfort

EGON YELLOW

















EGON LIGHT MIRROR















HEKLA2 CLEAR















EGON SMOKE



















	€	o ^o	\rightarrow	<u></u>		
MILO CLEAR	Clear	Single lens polycarbonate glasses. Integrated polycarbonate nose piece.		EN170 UV 2.C-1.2	· - 18 g	x100
MILO SMOKE	Smoke	Polycarbonate arms. Metal free: dielectric. Ultra light: 18 g. Ultra flexible.	0 1 2 2 3 3	EN172 UV 5-3.1		
MEIA CLEAR	Clear		C € EN166 1FT/FT	EN170 UV 2.C-1.2	22 g	
MEIA YELLOW	Yellow	Single lens polycarbonate glasses. Integrated polycarbonate nose piece. Polycarbonate arms. Non-slip PVC tips.	0 1 2 2 2 2			
MEIA SMOKE	Smoke		0 0 0 0	EN172 UV 5-3.1		

MILO CLEAR

















MILO SMOKE













MEIA CLEAR



















MEIA YELLOW















MEIA SMOKE

















EYEWEAR PROTECTION

SAFETY GLASSES

	æ	o [©]			V			<u></u>	
BRAVA2 CLEAR	Clear	Polycarbonate single lens glasses. Soft flat spatula type arms. Integrated polycarbonate nose piece. Easy to use with safety helmet and ear defenders. Side protection.			EN170 UV 2C-1.2	ANSI Z87.1 Z87+			
BRAVA2 YELLOW	Yellow		C € EN166 1FT/FT						
BRAVA2 LIGHT MIRROR	Mirror			N166 FT / FT	EN170 UV 2C-1.7			25 g	x 100
BRAVA2 MIRROR					EN172 UV 5-2.5			0 2 3 3 5 6 6 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
BRAVA2 SMOKE	Smoke				EN172 UV 5-3.1				

BRAVA2 CLEAR





















BRAVA2 SMOKE















BRAVA2 YELLOW

















BRAVA2 LIGHT MIRROR















BRAVA2 MIRROR

















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KILIMANDJARO CLEAR AB	Clear			EN170			•	
KILIMANDJARO CLEAR	Gleat	Polycarbonate single lens glasses. Adjustable nylon arms. Side protection.		UV 2C-1.2	ANSI	ANSI Z87.1 Z87+	32 g	
KILIMANDJARO SMOKE	Smoke		C € EN166 1FT/FT	EN172 UV 5-3.1				
PITON 2 CLEAR	Clear	Polycarbonate single lens glasses. Modern and sport design. Side protection. Open arms for lateral ventilation. Hole in arms for neck cord.		EN170 UV 2C-1.2			30 g	x100
PITON CLEAR		Clear polycarbonate single lens glasses. Direct side ventilation. Side protection. Hole in arms for neck cord.			ANSI	ANSI Z87.1 Z87+	44 g	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

KILIMANDJARO CLEAR AB

KILIMANDJARO CLEAR























KILIMANDJARO SMOKE













PITON 2 CLEAR















PITON CLEAR











- EYEWEAR PROTECTION

SAFETY GOGGLES

	€	o ^c		Y	,		<u></u>	
GALERAS CLEAR	Clear	Polygophonoto goggloo Indirect yentilation Flovible DVC and	EN166 1 BT / 34 BT			0	0	
GALERAS SMOKE	Smoke	Polycarbonate goggles. Indirect ventilation. Flexible PVC and nylon frame. Panoramic screen. Adapted to wear with glasses and disposable respiratory half-masks. Wide elastic strap.		EN166 1 BT / 34 BT EN172 UV 5-3.1	ANSI	ANSI Z87.1 Z87+	104 g	x 60
FILM GOGGLE	Clear	Box of 10 sets of protective film to protect screens of goggles. Each set is made of 3 layers of films.					56 g	x 10

GALERAS CLEAR

























Tilting elastic ⇒Very good support

GALERAS SMOKE





















Marking (EN166)

- 1 = the best optical class
- B = resistance to medium energy impacts
- T = impact resistance at extreme temperatures
- 3 = resistance to liquid splashes
- 4 = resistance to large dust particles

FILM GOGGLE











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SAJAMA		Clear polycarbonate goggles, indirect ventilation. TPE flexible frame for long-lasting comfort. Wide elastic strap.		EN166 1 BT / 3 BT	ANSI	ANSI Z87.1 Z87+	92 g	
RUIZ 1 ACETATE	Clear	Clear acetate goggles. Flexible PVC frame. Indirect ventilation with 4 ventilators. Textile elastic strap. Resistant to chemical products splashes.	C€	EN166 1 FT / 3 FT	8 · · · · · · · · · · · · · · · · · · ·		86 g	x 60
RUIZ1		Clear polycarbonate goggles. Flexible PVC frame. Indirect ventilation with 4 ventilators. Textile elastic strap.		EN166 1 B / 3 B	(ANSI	ANSI Z87.1	#00 0 0 0 0 0 0 0	
MURIA 1		Clear polycarbonate goggles. Flexible PVC frame. Direct ventilation. Textile elastic strap.		EN166 1 B / B	Allor	Z87	60 g	

SAJAMA































Soft frame made of TPE →Prolonged comfort of use

PVC free and phthalate free ⇒Reduced risk of allergy



RUIZ 1













MURIA 1









- EYEWEAR PROTECTION **HELP WITH CHOICE**

— Welding

	PREMIUM	EVO	LUTION	ESSENTIAL			EVOLUTION	
	BARRIER2	SCREEN	CASOUD2HE	CASOUD3	A -	TOBA3 T5	LIPARI2 T5	PACAYA T5
EN169								
EN175	•	•	•	•		•		
EN379	•	•						
ANSI Z87.1	+	+						

All our polycarbonate glasses filter 99.9% of UV A, B or C (130 - 300 nm). Our UV400 glasses filter up to 400 nm.

Welding	MMA	MIG	MAG	TIG	Torch	Plasma	Laser
Process		Electric arc + Electrode		Electric arc + Electrode Tunsten	Torch flame	Electric arc + Electrode	Laser ray
Gas supply	No	Inert protective gas (Argon or Helium)	Active protective gas (Argon/CO ₂ or Argon/ Oxygen)	Neutral gas (Argon)	Fuel gas (acetylene, propane, butane or methane) + Combustion gas (oxygen - hydrogen or natural gas)	Argon (principal) + Hydrogen or Helium (annular)	No
=======================================		3,500°C to 7,000°C		3,500°C	3,150°C	15,000°C to 25,000°C	
Metal supply	Yes (melting electrode)		es al coil)	Yes (Filler metal rod)	Yes	No	No
Example of jobs using these process	Craftsmen, locksmiths, metal workers, coachbuilders	Steel structure, boile ironworks, railway ar	rmaking, metalwork / nd naval construction	Boilermaking, metalwork / ironworks	Plumbers, heating engineers, cold storage, locksmiths	Aeronautics, light and pharmaceutical Industry	Light and pharmaceutical Industry
Materials	Steel, stainless steel, cast iron, aluminum	Pure steel or weakly alloyed*	Stainless steel and copper alloy*	All type of metals (except light aluminum alloy*)	Copper, tin, brass, aluminum, zinc	Steels, stainless steel, aluminum and alloy*	Metals and plastics
Thickness	2 mm to 10 mm	t	mm .o mm	0,3 mm to 6 mm	Less than 2 mm	Micro plasma : 0,01 to 1 mm Plasma : 1 to 3 mm Unblocking spray plasma: 3 mm to 8 mm	2 mm to 8 mm
Features	Economical and good quality welding	High speed, regular and o	good quality welding bead	"Clean" welding, very high quality, slow process	Easy to settle, stand alone device. Easy to learn but average aspect.	Quality welding (fine and precise). Possibility of automatic process but rather slow. + Possibility to cut pieces	"Clean" and very high quality but expensive welding process + Cut of pieces in large series

An alloy is the combination of a metallic element with one or several other chemical elements by melting, with the aim of modifying the mechanical properties of the basic metal.

All alloys to the commination of a metalline tearners with order it seve Examples of Known alloys: - Cast iron: iron + carbon (between 2.1 and 6,7 % in carbon mass) - Steet: iron + carbon (less than 2,1 % in carbon mass) - Brass: Copper + Zinc - Bronze: Copper + tin

EYEWEAR PROTECTION

WELDING





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BARRIER 2	Black-Grey	Helmet for electric arc welding with self-obscuring screen. Can be used for MIG, MAG, TIG and plasma welding requiring 9 to 13 shade protection. Can be used in shade 5 to 9 for low intensity or flame welding. Can be used for grinding in shade 4.	EN166 1 B EN379 1/1/1/2 / 4/5-9/9-13 C ∈ EN175 B	ANSI Z87.1 287 W4/5-9/9-13	500 g	x 6
BARRIER PLATE 2	Clear	Pack of 5 exterior spare screens for BARRIER 2 helmet in polycarbonate.	EN166 1 B		38 g	x 100
BASWELD	Black	Bag of 10 sweat bands for BARRIER 2 and SCREEN welding shields.			5 g	x 20

BARRIER 2















High performance optical class ⇒Less visual fatigue



Replaceable exterior protection

screen ►Easy replacement of damaged screens



Field of view 100 x 67 mm ⇒Guaranteed maximum visual





Settings : sensitivity, hue selection, switching time Guaranteed user comfort for all types of welding

Grinding/soldering mode ⇒2 applications for a single product



4 independent sensors

⇒Increased product reactivity in all positions and in confined spaces



BARRIER PLATE 2

















- EYEWEAR PROTECTION WELDING

	•	₽ [®]		V)	<u></u>	
SCREEN	Black	Helmet for electric arc welding with self-obscuring screen. Can be used for MIG, MAG, TIG and plasma welding requiring DIN9 to DIN13 shade protection.	CE	EN166 1 F EN379 1/1/1/2 / 4/9-13 EN175 F	ANSI Z87.1 Z87 W4/9-13	474 g	х 6
SCREEN PLATE	Clear	Pack of 5 exterior spare screens for SCREEN helmet in polycarbonate.		EN166 1 F		14 g	x 150
BASWELD	Black	Bag of 10 sweat bands for BARRIER 2 and SCREEN welding shields.		••••••		5 g	x 20

SCREEN

















High performance optical class



External adjustment of the shade

One-handed adjustment with or without gloves



SCREEN PLATE

















BASWELD

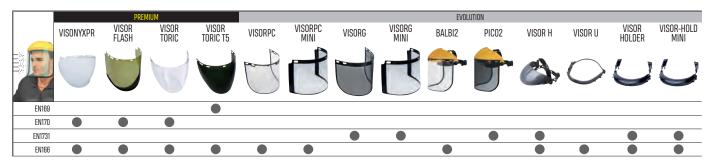




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CASOUD2HE	Black	Polypropylene welding face shield, to be used on safety helmets. For all types of welding that requires shade 11 protection. Sold ready to use: fixed screen equipped with one clear polycarbonate filter (FILTER-IN), flip-up screen equipped with one shade 11 filter (FILTER-IN), protected by one clear polycarbonate filter (FILTER-IN). Dimensions of the filters: 108 x 51 mm.	Adjustable	C€	EN166 1F / S EN169 11 EN175 S	304 g	x 10
CASOUD 3	Black	Helmet for all types of welding that requires shade DIN11 protection. Headband. Sold ready to use: fixed screen equipped with one clear polycarbonate filter (FILTER-IN), flipup screen equipped with one DIN11 filter (FILTER-11), protected by one clear polycarbonate filter (FILTER-IN). Dimensions of the filters: 108 x 51 mm.	Adjustable	C€	EN166 1F / F EN169 11 EN175 F	415 g	х6
FILTER-IN	Clear	Pack of 5 clear polycarbonate filter, 108 x 51 mm. to be fitted on CASOUD3 welding helmet and CASOUD2HE welding shield. Thickness: 1,8 mm.		C€	EN166 1F / F	140 g	x 20
FILTER 11	Green	Pack of 5 shade 11 mineral filter, 108 x 51 mm. to be fitted on CASOUD3 welding helmet and CASOUD2HE welding shield. Thickness: 3 mm.		C€	EN166 1 EN169 11	240 g	x 20
TOBA 3 T5	Red	Welding goggles. Flip-up screen. Flexible PVC frame. Indirect ventilation. Elastic strap. Clear polycarbonate inside lens. Shade 5 polycarbonate upper lens with clear polycarbonate reinforcement lens.	Adjustable	C€	EN166 1FT / FT EN169 5 EN175 FT	132 g	x 60
PACAYA T5	Shade 5	Polycarbonate single lens glasses. Integrated polycarbonate nose piece. Adjustable nylon arms. Side protection.		C€	EN166 1 FT / FT EN169 UV 5	32 g	x 100
LIPARI2 T5	Shade 5	Polycarbonate single lens glasses. Adjustable and tilting nylon arms. Spatula tips. Integrated TPE nose piece. Side protection.		(ANSI	EN166 1FT / FT EN169 UV 5 ANSI Z87.1 Z87+	34 g	x100

HELP WITH CHOICE

— Visor



All our polycarbonate glasses filter 99.9% of UV A, B or C (130 - 300 nm). Our UV400 glasses filter up to 400 nm.



SAFETY VISORS





	•	o ^o	•	\checkmark	<u></u>	
VISOR TORIC CLEAR	Clear	Polycarbonate injected visor. Thickness 1,9/2,0 mm. Electric Arc protection.		EN166 1AT 89 EN170 UV 2C-1.2	100 a	0 0 0 0 0 0 0 0 0
VISOR TORIC T5	Green shade 5	Universal fixing. Suitable for faceshield holder VISOR HOLDER, VISOR-H, VISOR-U. 39 x 20 cm.	(6	EN166 1 AT 9 EN169 5	- 162 g	x 20
VISOR T-GUARD	Clear	Polycarbonate chin protection to be fixed on VISOR TORIC visor.			46 g	b 1 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8

VISOR TORIC CLEAR















Marking (EN166)

- 1 = the best optical class
- A = the highest impact resistance T = impact resistance at extreme temperatures
- 8 = short-circuit electrical arc resistance
- 9 = resistance to the projection of molten metals

Marking (EN170) 2C-1,2 = UV resistance

VISOR TORIC T5



















Marking (EN166)

- 1 = the best optical class
- A = the highest impact resistance
- T = impact resistance at extreme temperatures
- 9 = resistance to the projection of molten metals

Marking (EN169)

5 = UV and IR resistance



Anti-scratch

⇒Increased lifespan

Spherical visor

⇒Extra large field of vision

Injected polycarbonate

→Maximum impact resistance

VISOR T-GUARD













EYEWEAR PROTECTION SAFETY VISORS



0 Y **EN166** 1FT 8 **ASTM F 2178-12** 14 cal/cm² **EN170** UV 2C-1.7 Polycarbonate injected visor, against electric arc and VISOR FLASH Green 230 g 🗄 x 25 thermal risk. Green shade for better transmission of light. **GS-ET 29** VISOR-U 8-2-1 (ANSI Z87.1 Z87+ U6 L1.7 VISOR-HOLDER 8-1-1

VISOR FLASH





























Curved chin protector ➡No discomfort in the user's movements



Injected polycarbonate

- ⇒2 to 2.3 mm thick
- →Maximum resistance to impact and radiant heat

Protection: 14cal/cm² (ASTM)

→ Maximum protection from electric arcs

UV filtration A, B and C at 99.9% (130-380 nm) ⇒Guaranteed protection from ultraviolet light



Protecting the face against the risk of electric arcs adapted to DELTA PLUS safety helmets (except Granite range)



What is an Arc Flash?

It is a short circuit that bursts from a live conductor exposed to another or to the ground, resulting in a large electrical discharge driven by the ambient air. The phenomenon ionises the air. which becomes almost as conductive as metal. This sudden and massive energy release is like an explosion, generating temperatures that can reach 20,000°C locally. That is 4 times hotter than the surface of the sun. This immense energy can melt and vaporise metals and other materials almost instantly. blowing them with hot gases in the immediate vicinity, destroying the electrical equipment involved and causing injuries to people working nearby.

Who may be exposed?

Industrial electricians and technicians in distribution or electrical maintenance.

What are the effects?

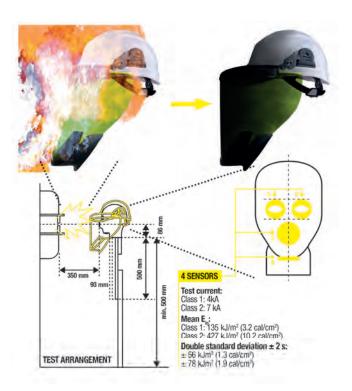
Rapid release of energy and heat: a fireball exploding toward the outside that can cause irreversible burns.

Blinding light.

Shockwave: a blast that strikes violently in a frontal way. Sound wave: hearing disorders and acoustic trauma. Sudden spraying of molten metals and incandescent shrapnel in all directions.

What causes a Arc Flash?

Usually limited to electrical systems larger than 480 volts, an Arc Flash may be caused by improper handling or by components such as switches, terminating conductors, fuses, circuit breakers, relay contacts, bus-bars or other defective components. Particularly due to poor maintenance, humidity, dust and corrosion for example. Where to start? It is important to systematically conduct a risk analysis of the equipment and the workstation before any operation! This analysis must be carried out by a qualified person and makes it possible to evaluate the level of risk and the equipment necessary for the intervention, in particular the choice of Personal Protective Equipment.







The visors on the market were very cumbersome with imposing chin protectors that bothered workers. The VISOR FLASH has been designed for ease of use. An essential point was the mobility of the user during his tasks. The chin protector has been modified three times until we got the best combination of protection and freedom of movement of the head. The curved design at the bottom of the chin guard helps deflect the arc explosion and rests comfortably on the torso during work. In addition, we have retained excellent lateral protection while reducing the overall weight of the visor. Simultaneously with VISOR FLASH, we created the VISOR-U Visor Holder, moving the pivot point further back on the worker's safety helmet. This lightweight combination makes VISOR FLASH more acceptable and makes it easier to use in an already challenging work environment.

Rick Rustello, Arc Flash Specialist

EYEWEAR PROTECTION SAFETY VISORS

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VISORPC	Clear	Pack of 2 clear polycarbonate visors with plastic edge. Universal fixing. Suitable for BALB12, PICO2, VISOR-H and VISOR HOLDER faceshield holder. 39 x 20 cm.		EN166 1BT	100 a	
VISORG	Black	Pack of 2 gauze visors with plastic edge. Universal fixing. Suitable for BALB12, PICO2, VISOR-H and VISOR HOLDER faceshield holder. 39 x 20 cm.		EN1731 F	100 y	v 00
VISORPC MINI	Clear	Pack of 2 clear polycarbonate visors with plastic edge. Universal fixing. Suitable for VISOR-HOLD MINI. 36 x 17 cm.	(6	EN166 1BT	84 g	x 20
VISORG MINI	Black	Pack of 2 gauze visors with plastic edge. Universal fixing. Suitable for VISOR-HOLD MINI. 36 x 17 cm.	•	EN1731 S	94 g	

VISORPC













VISORG







VISORPC MINI







VISORG MINI









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BALBI 2	Yellow	Faceshield with front protection + VISORPC visor: clear polycarbonate visor with plastic edge. 39 x 20 cm.		EN166 1BT / 3BT	260 g	v 20	
PICO 2	Yellow-Black	Faceshield with front protection + VISORG visor: gauze visor with plastic edge. 39 x 20 cm.		EN1731 F / F	262 g	x 20	
VISOR-H	Grey	Faceshield with front protection. Innovative adjustable ROTOR system: head sizes 53 to 63 cm.		EN166 EN1731	180 g	x 25	
VISOR-U		Dielectric faceshield holder suitable for safety helmets and visors.	CE	CE	EN166		x 100
VISOR HOLDER	Black	Faceshield holder suitable for ZIRCON, QUARTZ and BASEBALL DIAMOND safety helmets. To combine with VISORPC, VISORG, VISOR-TORIC and VISOR FLASH visors, universal fixing.		EN1731 GS-ET 29	86 g	x 20	
VISOR-HOLD MINI		Faceshield holder suitable for GRANITE WIND and GRANITE PEAK safety helmets. To combine with VISORPCMINI and VISORGMINI.		EN166 EN1731	74 g		

BALBI 2











PICO 2









VISOR-H









VISOR-U















VISOR HOLDER











Compatible with earmuffs

VISOR-HOLD MINI





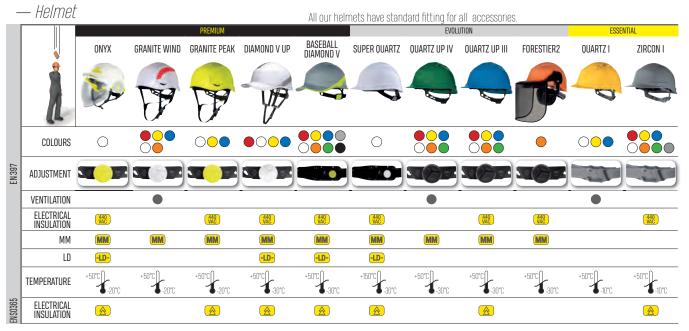






SKULL PROTECTION

HELP WITH CHOICE



Bump cap

		PREMIUM	EVOLUTION	ESSENTIAL
		KAIZI0	AIR COLTAN	COLTAN
EN812				
	COLOURS			
	VISOR Length (CM)	5	3/5/7 5/7 3/7 7	3/5/7

Customize your safety helmets!

- → The logo sent must be in vectorized format (.eps, .ai, or .pdf) and must not have a different colour background to the chosen helmet.
- → For logos in colours, please indicate the pantone reference for each colour.
- → Warning: the colours of the logos can be slighty changed according to the colour of helmets. To have the same colour as your logo, we recommend that you choose white helmets.
- → It is impossible to do gradient colours in pad printing.
- → Minimum of order: 40 pieces per colour for all orders in Europe.
- → Maximum number of colours: 4
- The space to put the logo may not exceed dimensions shown on the table below:





BADGEH

Badge holder for BASEBALL DIAMOND and BASEBALL DIAMOND UP

→ Minimum of order: 20 pieces per colour for all orders in Europe



SAFETY HELMETS





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GRANITE WIND	White Blue Yellow Orange Red	Ventilated ABS safety helmet. Mountain helmet style: without visor for the best vertical vision. Less encumbrance. Light. Polyamide cradle: 3 textile bands with 8 fixing points. Thermoformed sweat band. Innovative adjustable ROTOR system: head sizes 53 to 63 cm. Sold with 3 point chin strap.	EN397 MM -20°C +50°C	368 g	
GRANITE PEAK	White Blue Yellow	ABS safety helmet. Mountain helmet style: without visor for the best vertical vision. Less encumbrance. Light. Polyamide cradle: 3 textile bands with 8 fixing points. Thermoformed sweat band. Innovative adjustable ROTOR system: head sizes 53 to 63 cm. Sold with 3 point chin strap. Specially designed for working at height. Electrical insulation up to 1000 V.A.C. or 1500 V.D.C.	EN397 MM -20°C +50°C 440VAC EN50365 CLASS 0	350 g	x 10
BASGAMMA	Disale	Bag of 5 thermoformed sweat bands. Suitable for QUARTZ UP, SUPER QUARTZ, BASEBALL DIAMOND and GRANITE safety helmets.		4 g	00
JUGGAMMA		Bag of 5 chin straps with 3 fixing points. Safety-breaking system. Suitable for GRANITE PEAK and GRANITE WIND safety helmets.		19 g	x 20

GRANITE WIND













Fins system
Optimised ventilation with increased protection from projections

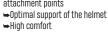


One-D Rotor ergonomic clamping

→One-handed adjustment with or without gloves



Chin Strap 3 removable attachment points



GRANITE PEAK















Replaceable thermoformed sweat

- ⇒Increased comfort ⇒Good absorption of perspiration



Polyamide cradle: 3 fabric bands with 8 attachment points

⇒Comfort of use guaranteed



Design without visor ►For work at height with an optimal field of vision



BASGAMMA



JUGGAMMA

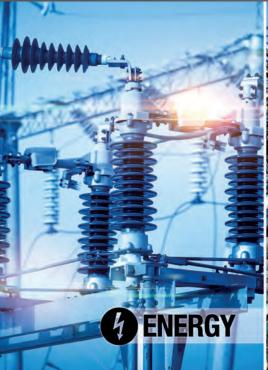








- SKULL PROTECTION **SAFETY HELMETS**







ONYX



















Polyamide cap: 3 textile headbands with 6 attachment points and adjustable headband in high or low position —Better weight distribution in the case

of shock and guaranteed user comfort

Integrated visor

⇒Compact and combined solution



HARNESS O



VISONYXPR



























DYNAMIC JUGBETA







A modern design inspired by the world of sport offering dual protection for harsh work environments and electric hazards at a price accessible to all users.

	•	o [©]	•	V		
ONYX	White	ABS dual shell safety helmet with PC retractable visor. Sport and dynamic design. 3 textile straps with 6 fixing points. Foam sweat band. One-D Rotor clamping system: head size 53 to 63 cm. 2 possible positions of the headband (top/low) for a better comfort. Retro-reflective stickers. Electrical insulation up to 1000 V.A.C. or 1500 V.D.C, protection against arc fault Class 1 (GS-ET 29). Visor with anti-Fog N and anti-scratch K treatments and protection against electrical arcs, and molten metals or hot liquids projections.	C€	EN397 LD MM -20°C +50°C 440VAC EN50365 CLASS 0	EN166 1 AT 8 9 KN / 3 8 9 AT EN170 2C-1.2 GS-ET 29 8-1-0	x 6
HARNESS O	Black	Bag of 6 spare harnesses for ONYX safety helmet. Textile lining, foam sweat band, adjustement with One-D Rotor knob system.				x 10
VISONYXPR	Clear	Spare polycarbonate injected visor for double-shell ONYX helmet.	C€	EN166 1AT 8 9 KN / 3 8 9 AT EN170 2C-1.2	GS-ET 29 8-1-0	x 20
DYNAMIC JUGBETA	Black	Bag of 10 chin straps. 4 fixing points for work at height. Safety-breaking system. Suitable for ONYX safety helmet.				



Balanced centre of gravity ightharpoonup For a prolonged use ⇒Reduction of musculoskeletal

disorders (MSDs)



Comfortable distance between the visor and the user's face ⇒Good ventilation, prevents

⇒Compatible with glasses



Easy locking of the visor in two

→Optimum safety : The visor does not rise or fall unexpectedly



Optimised visor grip area ightharpoonupGuaranteed use and manoeuvrability with or without



Lateral reflectivity ⇒For more visible workers



One-D Rotor ergonomic clamping system →One-handed adjustment with or



ABS double shell ⇒Improved robustness, resistance to lateral deformation: increased protection



Replaceable visor ⇒Easy replacement of damaged



Clips to hold a headlamp ⇒Designed to attach a headlamp with an elastic headband



Microfibre storage bag ⇒Easy storage for a longer product life

EUROPEAN STANDARD: EN166 - 8

without gloves

Class 1: 4 kA - 155 kJ.m² (3.7 cal.cm²)

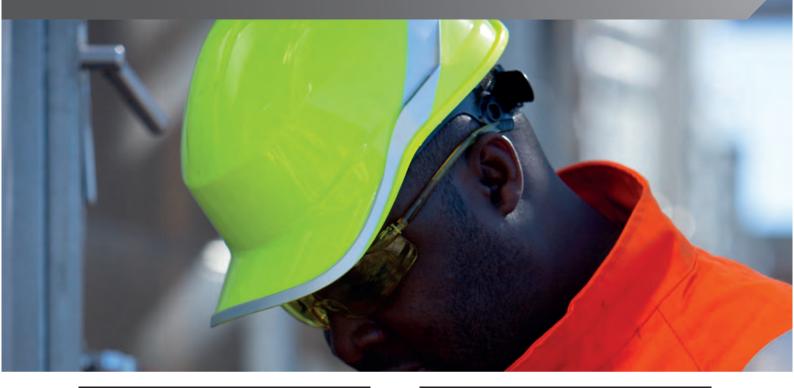


The challenge in the development of ONYX was to obtain a compact and easy to use product while keeping a comfortable distance between the face and the visor in low position. We managed this with an average of over 2 cm between the user's nose and the visor. The simplicity of use is at the meeting: no spring or complicated locking system for the kinematics of the visor.

Marie Pourcher, Head Protection Product Expert

SKULL PROTECTION

SAFETY HELMETS



BASEBALL DIAMOND V













Button tightening

⇒Easy adjustment with a simple push BASEBALL DIAMOND V



Neon colours and silver band To be better seen at your workstation BASEBALL DIAMOND V BASEBALL DIAMOND V UP



Very curved visor

⇒Best field of view at height BASEBALL DIAMOND V BASEBALL DIAMOND V UP



Also certified for wearing backwards down → Maximum field of vision without visor BASEBALL DIAMOND V BASEBALL DIAMOND V UP

BASEBALL DIAMOND V UP













One-D Rotor ergonomic clamping system

→One-handed adjustment with or without gloves

BASEBALL DIAMOND V UP



Retro-reflective tapes

➡To be better seen at your workstation



Polyamide cradle : 3 fabric bands with 8

attachment points **⇒**Comfort of use guaranteed











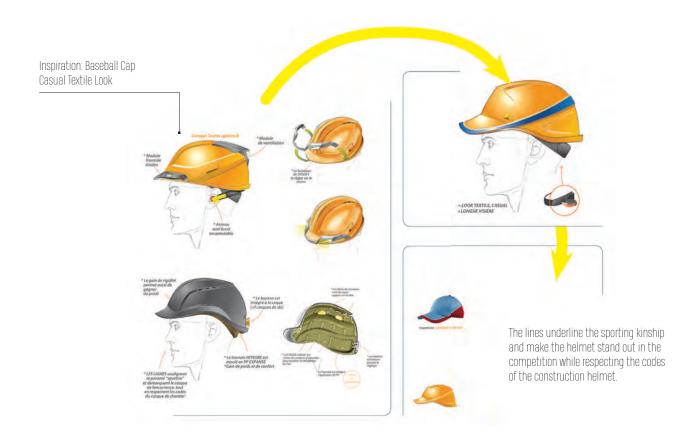






The Iconic helmet in construction and industry with its unique design.

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BASEBALL DIAMOND V	White Blue Grey-Yellow Yellow Black Orange Red Green	ABS safety helmet. Innovative "baseball cap" shape to improve vision when looking up. Also tested for front back wearing, to reduce encumbrance. Polyamide cradle: 3 textile straps with 8 fixing points. Foam sweat band. Innovative button adjustment "colour to colour" for head size 53 to 63 cm. 2 possible positions of the headband (top/low) for a better comfort. Electrical insulation up to 1 000 V.A.C. or 1500 V.D.C.	$C \in$	EN397 MM LD -30°C +50°C	375 g	x 20
BASEBALL DIAMOND V UP	White Blue Yellow Orange Red Green	ABS safety helmet with innovative design. Tested in "reverse" position. Polyamide cradle: 3 fabric bands with 8 attachment points. Foam sweat band. Rotor clamping system: head size 53 to 63 cm. 2 possible positions around the head (high/low) for better comfort. Retro-reflective band. Electrical insulation 1000 VAC/1500 VDC. Sold with 4 points chinstrap.		440 VAC EN50365 CLASS 0	400 g	
HARNESS V	Black	Bag of 10 spare harnesses for BASEBALL DIAMOND safety helmet. Textile lining, foam sweat band, adjustment with button.			7 g	x 10





Users are sometimes bothered by the very classic look of the market's safety helmets. In 2009, we jostled an overly uniform market by launching our PREMIUM helmet: the BASEBALL DIAMOND with a shape inspired by baseball caps. To date, we remain the only players on the market to offer a headset with a contrast colour and a particular look while ensuring a maximum level of protection.

Marie Pourcher, Head Protection Product Expert

- SKULL PROTECTION SAFETY HELMETS

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QUARTZ UP IV	White Blue Yellow	Blue for better comfort.		EN397 MM -30°C +50°C	350 g	(0
QUARTZ UP III	Orange Red Green	UV-resistant high density polypropylene (PP) safety helmet. Polyamide cradle: 3 textile bands with 8 fixing points. Foam sweat band. Innovative adjustable ROTOR system: head sizes 53/63 cm. 2 possible positions of the headband (high/low) for better comfort. Electrical Insulation up to 1000 V.A.C. or 1500 V.D.C.	(6	EN397 MM -30°C +50°C 440VAC EN50365 CLASS 0	354 g	x 40

QUARTZ UP IV



QUARTZ UP III





Adjustable ventilation →Optimised ventilation QUARTZ UP IV



One-D Rotor ergonomic clamping

⇒One-handed adjustment with or without gloves















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FORESTIER 3	Orange	Forester's type helmet consisting of: ZIRCON safety helmet: UV-resistant high density polyethylene (HDPE) or polypropylene (PP). Sweat band. Low density (LDPE) polyethylene cradle with 8 fixing points. SUZUKA2 ear defenders. VISOR HOLDER faceshield holder. VISORG gauze visor. Cardboard packaging.		EN397 -10°C +50°C 440VAC EN50365 CLASS 0 EN1731 F	EN352-3 SNR 24 dB H 27 M 21 L 14 S/M/L	810 g	x 12
SUPER QUARTZ	White	ABS-PC safety helmet. Polyamide cradle: 3 textile bands with 8 fixing points. Foam sweat band. Innovative button adjustment "colour to colour" for head sizes 53/63 cm. 2 possible positions of the headband (high/low) for better comfort. Electrical Insulation up to 1 000 V.A.C. or 1 500 V.D.C.	CE	EN397 MM LD -30°C +150°C 440VAC	EN50365 CLASS 0	410 g	x 40

FORESTIER 3













SUPER QUARTZ



















Button tightening

Easy adjustment with a simple push



Tested on impact and penetration at extreme temperatures + 150°C/-30°C ⇒Especially for the steel industry trades





- SKULL PROTECTION SAFETY HELMETS

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QUARTZ I	White Blue Yellow	Ventilated UV-resistant high density polypropylene (PP) safety helmet. Polyethylene cradle: 8 fixing points. Sweat band. Manual adjustment: head sizes 53/63 cm. 2 possible positions of the headband (high/low) for better comfort. Helmet with adjustable ventilation.	C€	EN397 -10°C +50°C	322 g	x 40
ZIRCON 1	White Blue Grey Yellow Orange Red Green	UV-resistant high density polyethylene (HDPE) or polypropylene (PP) safety helmet. Low density (LDPE) polyethylene cradle with 8 fixing points. Sweat band. Manual adjustment: head sizes 53/63 cm. Electrical Insulation up to 1000 V.A.C. or 1500 V.D.C. Standard holes for accessories. Anchorage for chin straps with 2 or 4 points.	C€	EN397 -10°C +50°C 440VAC EN50365 CLASS 0	330 g	x 40
WINTER CAP	Black	Lining placed inside the helmet. Accessory for extreme cold protection, easy to remove. User instructions included. Suitable for our range of helmets. This is not PPE.			125 g	x 40
FUEGO	Clear	Clear polycarbonate single lens glasses to use as an accessory for safety helmet. Wraparound design for maximum protection. Folding system in the helmet when it is not used, for intermittent use. Very convenient. Branches foldable for easy positioning in the helmet. Suitable for our range of safety helmet.	C€	EN166 1 FT / FT EN170 UV 2C-1.2	34 g	x100

HELMETS ACCESSORIES - MARKING





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JUGGAMMA	Black	Bag of 5 chin straps with 3 fixing points. Safety-breaking system. Suitable for GRANITE PEAK and GRANITE WIND safety helmets.	Adjustable	x 20
BASGAMMA	Black	Bag of 5 thermoformed sweat bands. Suitable for QUARTZ UP, SUPER QUARTZ, BASEBALL DIAMOND and GRANITE safety helmets.		x 20
DYNAMIC JUGBETA	Black	Bag of 10 chin straps. 4 fixing points for work at height. Safety-breaking system. Suitable for ONYX safety helmet.	Adjustable	x 20
DYNAMIC JUGALPHA	Black	Bag of 10 chin straps. 4 fixing points for work at height. Safety-breaking system. Suitable for ZIRCON, QUARTZ, QUARTZ UP, SUPER QUARTZ and BASEBALL DIAMOND safety helmets.	Adjustable	x 20
MENTALPHA	Black	Bag of 10 elastic chin straps with chin protector. Safety-breaking system. Suitable for ZIRCON, QUARTZ, QUARTZ UP, SUPER QUARTZ and BASEBALL DIAMOND safety helmets.	Adjustable	x 20
JUGALPHA	Black	Bag of 10 chin straps. Safety-breaking system. Suitable for ZIRCON, QUARTZ, QUARTZ UP, SUPER QUARTZ and BASEBALL DIAMOND safety helmets.	Adjustable	x 20
BASALPHA	Black	Bag of 10 foam sweat bands. Suitable for ZIRCON, QUARTZ, QUARTZ UP, SUPER QUARTZ, BASEBALL DIAMOND and GRANITE safety helmets and for BALBI2, PICO2 and VISOR-H faceshields.		x 20
NECKALPHA	Fluorescent orange	Bag of 2 neck protections adaptable on ZIRCON, QUARTZ, BASEBALL DIAMOND, GRANITE and ONYX safety helmets. High-visibility. Protects from the Sun's radiations and from dust.	Adjustable	
HESTICKER 3 1 1, 3' 4 4' 2	Metal grey Red	Bag of stickers for DELTA PLUS safety helmets.	One size	x 240

SKULL PROTECTION BUMP CAP

A new generation protection cap: The protective shell and the absorbent foam are one!

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KAIZIO	Grey-Black	Ergonomic bump cap suitable for all. Polyester / cotton fabric with ventilated mesh. Equipped with an inner shell in PP molded of a TPE cellular band for better shock absorption and longer lifespan.	C€	EN812	185 g	x 20

KAIZIO













TPE Multi-block over-moulding protection pad with 7 independent pads

→Limits the "helmet" effect by reducing contact with the skull and improves airflow



Triangles form small closed cells that allow the heat to not stay in contact with the skull →More comfort when carrying



Over-moulding of the TPE foam on the PP shell ⇒Increased longevity : Zero risk of detachment on wear

Washahle



Perforated area under the mesh fabric forming air entrances and outlets allow the heat not to stay in contact with the skull

→ Reduction of perspiration



➡To be better seen at your workstation



⇒Guaranteed visual comfort



Adjustable buckle with Velcro strap closure

⇒Easy adjustment with a simple



Universal fit ⇒One size for all



Matched to the MACH 5 clothing range

➡Total look

Our goal has been to design a "system" of pads for breathability while ensuring increased durability. So we opted for a pad in TPE (+ hygienic) and with

good mechanical shock absorption - cf. curve)

over moulded on the PP shell (better durability).

Marie Pourcher, Head Protection Product Expert



	æ	o [©]	\checkmark	4	
	Navy blue- Orange Grey-Yellow Fluorescent yellow-Grey Black-Red	Impact resistant baseball style bump cap. Highly ventilated polyester/cotton with mesh fabric on top part for more comfort. Lined with polyethylene and comfortable EVA foam shell to absorb shocks. Adjustable size by buckle 55/62 cm.	C€ EN812	176 g	x 20
COLTAN	Navy blue		0 0 0 0	150 g	

AIR COLTAN









Bi-material



Polyethylene shell with 18 holes →Ventilation



Ventilated Mesh fabric →Reduction of perspiration



Rear tightening ⇒Easy adjustment





Assorted colours available to match the MACH 2 CORPORATE clothing range - PANOSTYLE HV - DMACH



COLTAAIBMSH - 5 cm





COLTAAIGRMI - 3 cm



COLTAAIGR - 7 cm



COLTAAINOMI - 3 cm COLTAAINOSH - 5 cm



COLTAAINOLG - 7 cm

COLTAN







COLTABMMI - 3 cm





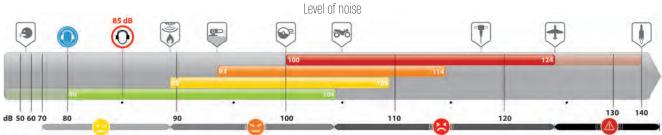


COLTABMSH - 5 cm

HELP WITH CHOICE

EAR DEFENDERS AND EARPLUGS









Attenuation values for noise



	4 4			19		W #	37				
	CONICSOF	CONICAP	CONICFIRDE	CONICFIR	CONICMOVE	CONICFIT	CONICPLUS	CONICCOPLUS	CONICDE	CONICCO	CONIC
100 - 124 dB	,								36 dB	36 dB	36 dB
93 - 114 dB						32 dB	35 dB	35 dB			
89 - 109 dB	26 dB	28 dB	28 dB	29 dB	29 dB						
80 - 104 dB											
	H 25 M 23 L 22	H 29 M 24 L 22	H 27 M 25 L 23	H 29 M 27 L 24	H 31 M 25 L 23	H 32 M 29 L 28	H 35 M 33 L 30	H 35 M 33 L 30	H 34 M 34 L 31	H34 M 34 L 31	H34 M 34 L 31
	Silicone	PU	TPR	TPR	PU	Silicone	PU	PU	PU	PU	PU
	8-10 mm	8-18 mm	7 - 11 mm	7-11 mm	12-17 mm	8-12 mm	6-15 mm	6-15 mm	7-12 mm	7-12 mm	7-12 mm
	Textile	Foldable headband	Textile	Textile	Ergonomic headband	Textile	-	Plastic	Plastic	Plastic	-
	Reusable	Reusable	Reusable Detectable	Reusable	Reusable	Reusable	Disposable	Disposable	Disposable Detectable	Disposable	Disposable
Packaging	x10 \text{\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exittit{\$\text{\$\exittit{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\}\$}}}}\$}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	x1	XIII Q	X10 Q-		x10	x 200	x 200	x10 \(\text{\tin}\text{\ti}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\text{\text{\ti}\tint{\text{\text{\tin}\text{\text{\text{\text{\text{\tin}\tint{\text{\text{\text{\text{\text{\text{\text{\texi}\tint{\text{\text{\text{\texi}\tint{\text{\texi}\tint{\text{\texi}\tex{\texi}\text{\texi}\text{\texit{\text{\texi}\text{\texi}\ti}	x 200	X10 X200 X5

EAR DEFENDERS





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EZ-COM	Black-Grey	Bluetooth 3.0 hands-free kit. Adaptable for safety helmets and ear defenders. "EZ to EZ" peering for simultaneous conversation. Autonomy in use: 10 h. Mounting bracket for safety helmet and ear defender included. USB charging cable included.	2014/53/UE	71 g	x 10
PIT-RADIO 3	Black-Red	Electronic ear defender, equipped with a radio system. Allows you to listen to the radio in the FM band (87-108 MHz), while protecting hearing, in an efficient and enjoyable way. Requires 2 AA batteries not included.	EN352-1 SNR 27 dB H 31 M 24 L 16 S/M/L EN352-6 EN352-8 EN352-8 ANSI S3.19 ANSI S3.19	388 g	x 20

EZ-COM: Safely and easily communicate handsfree at work.

EZ-COM









Attachment kit on ear defender
Communicates while
remaining protected from harmful noises



Attachment kit on a safety helmet

⇒Communicates while remaining protected from shocks



2 users

ightharpoonsIntracom System : Autonomous communication system

➡Conversation with 2 in full duplex



Reduction of ambient noise by DSP

➡Keeps an audible conversation in any type of environment



Bluetooth

⇒Compatible with all Bluetooth communicating systems



Resistance to water and dust ⇒Use in aggressive environments



With Lithium battery

- ⇒USB cable included
- ⇒Battery rechargeable in 2 hours



Autonomy : 10 am in communication

⇒0ver a day of autonomous

PIT-RADIO 3













Operates with AA battery ➡Not included



AUX-IN jack ►MP3 connection



EAR DEFENDERS

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INTERLAGOS	Grey Fluorescent yellow	Ear defenders with ABS cups. Pads filled with synthetic foam. Double plastic headband (POM), adjustable in height, with soft reinforcement for a better comfort.		EN352-1 SNR 30 dB H 30 M 28 L 20 S/M/L	ANSI S3.19 NRR 28 dB	290 g	v 00
YAS MARINA		Foldable ear defenders with ABS cups. Pads filled with synthetic foam. Double plastic headband (POM), adjustable in height, with foam reinforcement for a better comfort.	CE	EN352-1 SNR 30 dB H 33 M 29 L 19 S/M/L		299 g	x 20
INTERHYKIT		5 Hygiene Kits (cushions + foam inserts) for INTERLAGOS, YAS-MARINA, SILVERSTONE2 and SEPANG2 earmuffs.				175 g	x 5

INTERLAGOS















Double headband ⇒Greater flexibility and comfort



Ear defender holder tool included on the belt

→Hearing protection always at your fingertips







HV colour ➡To be better seen at your workstation

Colour identification ⇒Indicates the level of protection

YAS MARINA









Double headband ⇒Greater flexibility and comfort





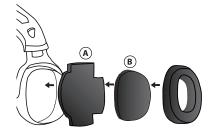


Foldable hoop ⇒Less space, easier storage

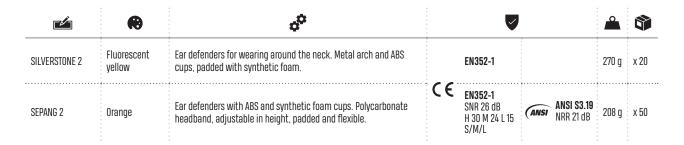


Ear defender holder tool included on the belt ightharpoonup Hearing protection always at your fingertips

INTERHYKIT







SILVERSTONE 2













SEPANG 2









EAR DEFENDERS

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MAGNY-COURS 2	Black	Ear defenders with ABS cups. Pads filled with synthetic foam. Metallic headgear: external in textile/internal in EVA/PVC material, adjustable in height, very comfortable. High performance level.	EN352-1 SNR 33 dB H 34 M 32 L 25 S/M/L	ANSI S3.19 NRR 26 dB		
MAGNY HELMET 2		Ear defenders for safety helmets. Adjustable in height. Metallic arms and ABS cups padded with synthetic foam. Can be used on their own or with VISOR HOLDER faceshield holder. Suitable for ZIRCON, QUARTZ, GRANITE and BASEBALL DIAMOND safety helmets.	EN352-3 SNR 30 dB H 32 M 28 L 22 S/M/L	ANSI S3.19 NRR 25 dB		x 20
SPA 3	Blue-Black	Ear defenders with polystyrene (PS) and synthetic foam cups. ABS headband, adjustable in height. Low pressure pads.	EN352-1 SNR 23 dB H 24 M 20 L 13 S/M/L		154 g	x 50
SUZUKA 2	Fluorescent yellow Black	Ear defenders for safety helmets. Adjustable in height. High flexibility ABS arms and cups. Cups padded with synthetic foam. Can be used on their own or with «VISOR HOLDER» faceshield holder. Suitable for GRANITE, SUPER QUARTZ, QUARTZ, ZIRCON and BASEBALL DIAMOND safety helmets.	EN352-3 SNR 24 dB H 27 M 21 L 14 S/M/L	ANSI S3.19 NRR 21 dB	254 g	x 20











MAGNY HELMET 2





SPA 3









SUZUKA 2











REUSABLE EARPLUGS





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CONICFIRO50	Yellow	Box of 50 pairs of reusable TPR earplugs with fabric cord.		EN352-2	ANSI	ANSI S3.19 NRR 25 dB	x 20
CONICFIRO10		Bag of 10 pairs of reusable thermoplastic (TPR) earplugs with textile cord. Can be used with or without cord (9 pairs in bag + 1 pair in storage plastic box).		SNR 29 dB H 29 M 27 L 24 Ø 7-11 mm			v.100
CONICFIRDEO10	Blue-Yellow	Bag of 10 pairs of detectable and reusable TPR earplugs with textile cord. Metal insert, suitable for food industry. Can be used with or without cord (9 pairs in bag + 1 pair in storage plastic box).	C€	EN352-2 SNR 28 dB H 27 M 25 L 23 Ø 7-11 mm			
CONICFITO10	Orange	Bag of 10 pairs of reusable silicone earplugs with nylon cord. Can be used with or without cord (9 pairs in bag + 1 pair in storage plastic box).		EN352-2 SNR 32 dB H 32 M 29 L 28 Ø 8-12 mm	(ANSI	ANSI S3.19 NRR 26 dB	x 100
CONICSOF010	Yellow	Bag of 10 pairs of reusable silicone earplugs with textile cord. Can be used with or without cord (9 pairs in bag + 1 pair in storage plastic box).	**************************************	EN352-2 SNR 26 dB H 25 M 23 L 22 Ø 8-10 mm	ANSI S3.19 NRR 22 dB		0







Magnetically detectable product ⇒Suitable for the food industry

Profiled design with 3 fins: more material in contact with the ear canal

⇒Optimised sealing and noise attenuation

CONICFIT010









CONICSOF010





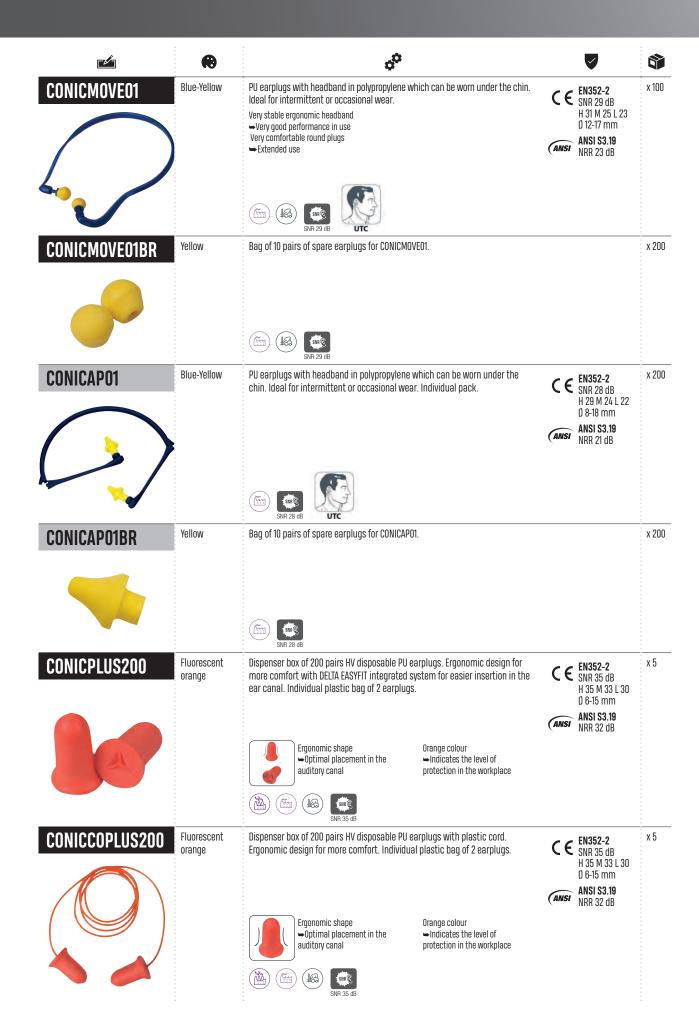




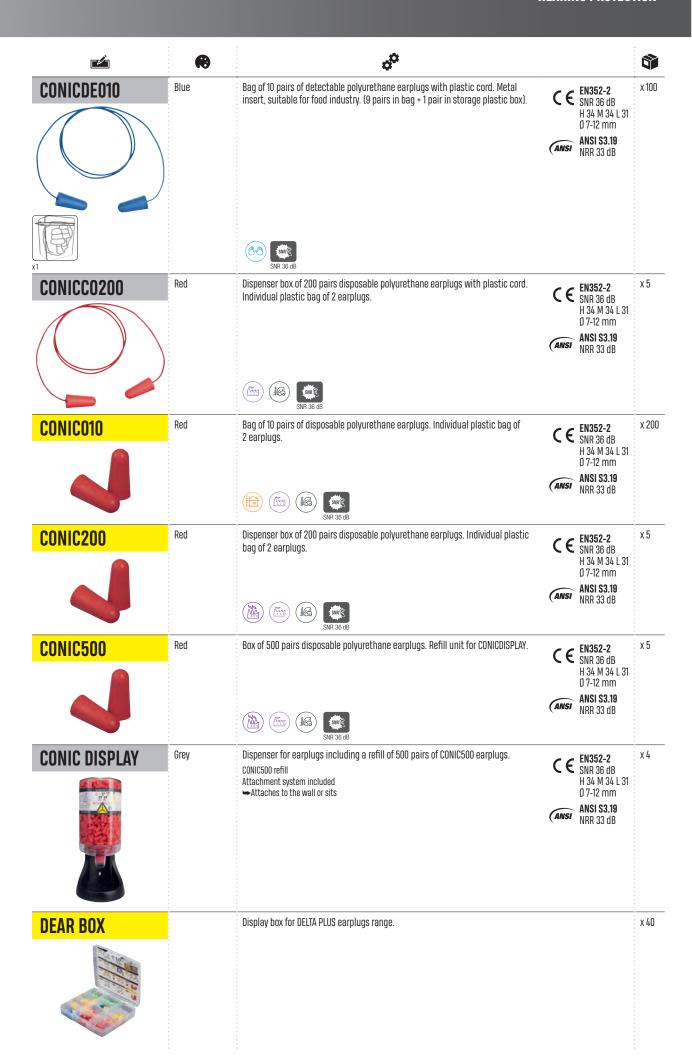




DISPOSABLE EARPLUGS







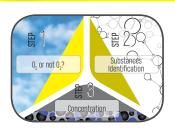


HELP WITH CHOICE



http://respiratory.deltaplus.eu

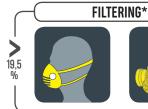
O, OR NOT O,?



AIR IS MAINLY **COMPOSED OF:**

78 % Nitrogen 21 % Oxygen

1% Other gas







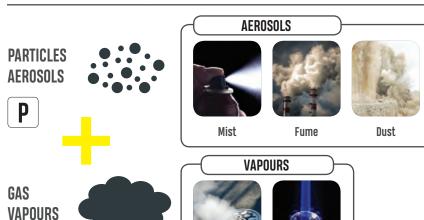
- *Except for:
- strong hazardous substance
- -[C] > 2000 x OEL
- no odor



STEP 2

STEP 1

IDENTIFY THE TYPE OF RISK





TWA

TIME WEIGHTED **A**VERAGE

Average exposure limit over an 8 hour time period

STEL SHORT TERM **E**XPOSURE LIMIT

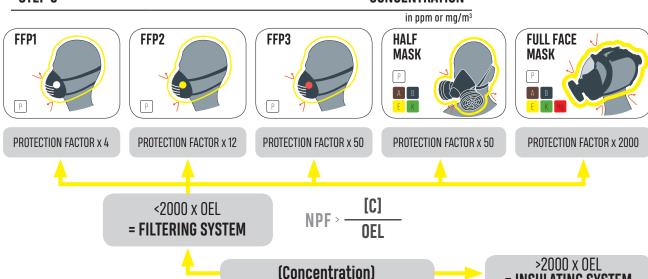
Should not be longer than 15 minutes

Should not occur more than 4 times per day with at least 60 minutes between exposures

= INSULATING SYSTEM



Vapours

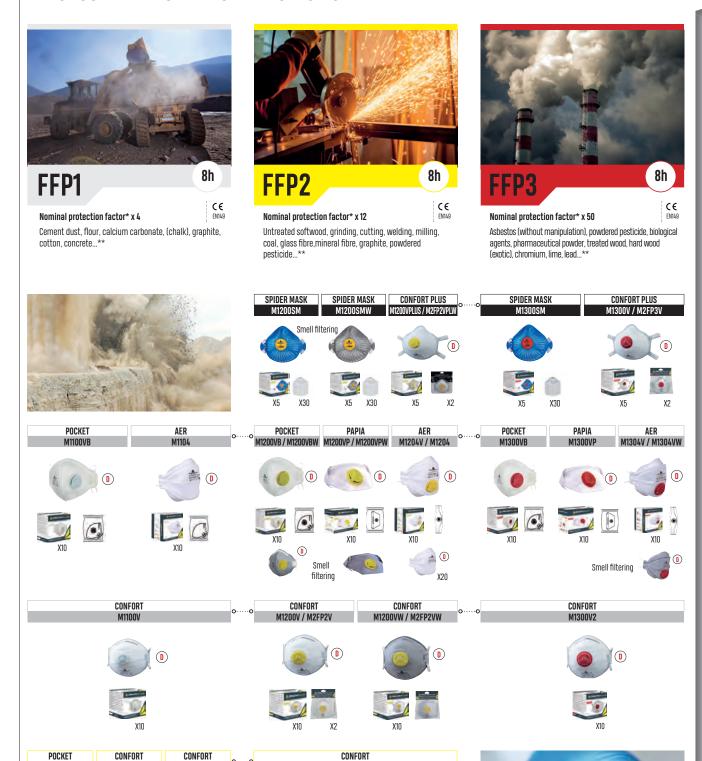


Gases

NPF: Nominal Protection Factor means the level of protection tested in laboratory The Level of APF, Assigned Protection Factor, might be different according local regulations

FFP3

DISPOSABLE RESPIRATORY PROTECTION



FFP1



FFP2

Optional test of EN149: 2001 standard for clogging of dolomite dust.
*The Assigned Protection Factor, might be different according local regulations.
* This list is indicative but not contractual and can not engage the responsibility of DELTA PLUS.

RESPIRATORY PROTECTION

DISPOSABLE RESPIRATORY

SPIDER MASK





SPIDERMASK P2 X5

SPIDERMASK P2W X5























High performance exhalation valve ⇒Better evacuation of moisture and heat for extended comfort of use



Clip closure at the back with textile

⇒Easy to set-up and remove



Very soft and comfortable TPE shell

➡Even after crushing the mask systematically returns to its original shape for a perfect fit on the face

Screw system to change the filtering facepiece

ightharpoonup Economical and ecological solution with the replacement of filter media only

SPIDER REFILL FFP3













SPIDER REFILL FFP2























An economical and ecological solution while ensuring maximum user comfort.

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SPIDERMASK P3 X5	Blue	Box of 5 reusable FFP3 dust mask. 5 Reusable moulded mask shells in TPE. Replaceable non woven synthetic fibre disposable filter (SPIDERREFILL FFP3). High performance valve which unscrews to allow the user to change the mask filter. Adjustable straps. Back fixing with clip.			
SPIDERMASK P2 X5	Jido	Box of 5 reusable FFP2 dust mask. 5 Reusable moulded mask shells in TPE. Replaceable non woven synthetic fibre disposable filter (SPIDERREFILL FFP2). High performance valve which unscrews to allow the user to change the mask filter. Adjustable straps. Back fixing with clip.	C€	EN149	
SPIDERMASK P2W X5	Grey	Box of 5 reusable FFP2W dust mask. 5 Reusable moulded mask shells in TPE. Active carbon non woven synthetic fibre disposable masks for organic vapours (for concentration < VME). Protection against harmful odours (welding fumes for example). Replaceable. High performance valve which unscrews to allow the user to change the mask filter (SPIDERREFILL FFP2W). Adjustable straps. Back fastening with clip.			x 10
SPIDER REFILL FFP3	NA/L:Lo	Box of 30 pieces of non woven synthetic fibre disposable masks FFP3 protection. Spare parts for SPIDER MASK.			
SPIDER REFILL FFP2	White	Box of 30 pieces of non woven synthetic fibre disposable masks FFP2 protection. Spare parts for SPIDER MASK.			
SPIDER REFILL FFP2W	Grey	Box of 30 pieces of active charcoal non woven synthetic fibre disposable masks FFP2W for organic vapours (for concentration < VME). Protection against harmful odours (welding fumes for example). Spare parts for SPIDER MASK.			







Less waste: Re-use of the valve, the elastics, and TPE shell. More economical: Replacing of the filter media without discarding the other components of the

Comfort superior to a classic disposable mask: Adjustment of the elastic via the rear clip.





Ecology a topic at the heart of the news. And at the heart of PPE? DELTA PLUS offers a green alternative to disposable masks: SPIDERMASK, a disposable mask with 70% of its components reusable for 1 month!

Marie Pourcher, Head Protection Product Expert

DISPOSABLE RESPIRATORY AER

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M1304V	White	Box of 10 non woven synthetic fibre disposable masks FFP3. Mask with 4 foldable parts suitable for all faces. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.		
M1304VW	Grey	Box of 10 active charcoal non woven synthetic fibre disposable masks FFP3 for organic vapours (for concentration < VME). Protection against harmful odours (welding fumes for example). Mask with 4 foldable parts suitable for all faces. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.		
M1204V		Box of 10 non woven synthetic fibre disposable masks FFP2. Mask with 4 foldable parts suitable for all faces. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.	C € EN149	x 10
M1104	White	Box of 20 non woven synthetic fibre disposable masks FFP1. Mask with 4 foldable parts suitable for all faces. Nose clip for adjustment. Foam edge under nose clip. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.		
M1204		Box of 20 non woven synthetic fibre disposable masks FFP2. Mask with 4 foldable parts suitable for all faces. Nose clip for adjustment. Foam edge under nose clip. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.		





















Without staples



High performance exhalation valve →Minimises moisture inside the mask



M1304VW















M1204V













M1104













M1204

















DISPOSABLE RESPIRATORY CONFORT PLUS





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M1300V		Box of 5 non woven synthetic fibre disposable masks FFP3. Wide adjustable straps. Moulded mask. Nose clip for adjustment. Complete ultra-soft face joint ring. High performance exhalation valve.		x 10
M2FP3V	White	Pack of 2 non woven synthetic fibre disposable masks FFP3. Wide adjustable straps. Moulded mask. Nose clip for adjustment. Complete ultra-soft face joint ring. High performance exhalation valve. DOLOMIA optional test for longer continuous wear time.	C EN149 NIOSH N99	x 36
M1200VPLUS		Box of 5 non woven synthetic fibre disposable masks FFP2. Wide adjustable straps. Moulded mask. Nose clip for adjustment. Complete ultra-soft face joint ring. High performance exhalation valve.		x 10
M2FP2VPLW		Pack of 2 active charcoal non woven synthetic fibre disposable masks FFP2 for organic vapours (for concentration < VME). Flame retardant. Wide adjustable straps. Moulded mask. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. DOLOMIA optional test for longer continuous wear time.	C € EN149 NIOSH N95 or N99	x 40

M1300V















Ultra-soft full facial seal ➡Increased comfort and optimal













Wide adjustable straps →Precise tightening and adjustment



High performance exhalation valve ➡Minimises moisture inside the mask

M1200VPLUS











M2FP2VPLW











Flame retardant ⇒Ideal for nuisance odours or soldering

DISPOSABLE RESPIRATORY CONFORT

	•	9 ²	V	
M1300V2	White	Box of 10 non woven synthetic fibre disposable masks FFP3. Moulded mask. Nose clip for adjustment. EVA edge for extra comfort under nose clip. High performance exhalation valve. DOLOMIA optional test for longer continuous wear time.	C € EN149	x 10
M1200V	White	Box of 10 non woven synthetic fibre disposable masks FFP2. Moulded mask. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. DDLOMIA optional test for longer continuous wear time.	C € EN149 MIOSH N95	x 10
M2FP2V	White	Pack of 2 non woven synthetic fibre disposable masks FFP2. Moulded mask. Nose clip for adjustment. Reinforced foam edge under nose clip. High performance exhalation valve. DOLOMIA optional test for longer continuous wear time.	C € EN149 NIOSH N95	x 36
M1200VW	Grey	Box of 10 active charcoal non woven synthetic fibre disposable masks FFP2 for organic vapours (for concentration < VME). Protection against harmful odours (welding fumes for example). Moulded mask. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. DOLOMIA optional test for longer continuous wear time.	C E EN149 MIOSH N95	x 10
M2FP2VW	White	Pack of 2 active charcoal non woven synthetic fibre disposable masks FFP2 for organic vapours (for concentration < VME). Protection against harmful odours (welding fumes for example). Moulded mask. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.	C € EN149 NIOSH N95	x 36
M1100V	White	Box of 10 non woven synthetic fibre disposable masks FFP1. Moulded mask. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. DOLOMIA optional test for longer continuous wear time.	C € EN149	x 10
M1200	White	Box of 20 non woven synthetic fibre disposable masks FFP2. Moulded mask. Nose clip for adjustment. Foam edge under nose clip. DOLOMIA optional test for longer continuous wear time.	C € EN149 MIOSH N95	x 10
M1100	White	Box of 20 non woven synthetic fibre disposable masks FFP1. Moulded mask. Nose clip for adjustment. Foam edge under nose clip. DOLOMIA optional test for longer continuous wear time.	C € EN149	x10
M3FP1	White	Pack of 3 non woven synthetic fibre disposable masks FFP1. Without valve. Moulded mask. Nose clip for adjustment. Foam edge under nose clip. DOLOMIA optional test for longer continuous wear time.	C € EN149	x 36

DISPOSABLE RESPIRATORY POCKET - PAPIA





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M1300VB	White	Box of 10 non woven synthetic fibre disposable masks FFP3. Nose clip for adjustment. High performance exhalation valve. Hygienic individual plastic bag.	C € EN149	x 10
M1200VB	White	Box of 10 non woven synthetic fibre disposable masks FFP2. Nose clip for adjustment. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.	C € EN149 Miosh N95	x 10
MACCOUDIN	Crou	Pov of 10 octive observed non-weaven curthetic fibre disposable modes FED2 for examina		v 10
M1200VBW	Grey	Box of 10 active charcoal non woven synthetic fibre disposable masks FFP2 for organic vapours (for concentration < VME). Protection against harmful odours (welding fumes for example). Nose clip for adjustment. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.	C € EN149	x10
M1100VB	White	Box of 10 non woven synthetic fibre disposable masks FFP1. Nose clip for adjustment. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.	C € EN149	x10
M1300VP	White	Box of 10 non woven synthetic fibre disposable masks FFP3. Nose clip for adjustment. Complete foam face joint ring. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.	C € EN149	x 10
M1200VP	White	Box of 10 non woven synthetic fibre disposable masks FFP2. Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. Hygienic individual plastic bag. DOLOMIA optional test for longer continuous wear time.	C € EN149 Miosh N95	x10
M1200VPW	Grey	Box of 10 active charcoal non woven synthetic fibre disposable masks FFP2 for organic vapours (for concentration < VME). Protection against harmful odours (welding fumes for example). Nose clip for adjustment. Foam edge under nose clip. High performance exhalation valve. Hygienic ndividual plastic bag. DOLOMIA optional test for longer continuous wear time.	C € EN149 MIOSH N95	x 10

HELP WITH CHOICE

REUSABLE RESPIRATORY PROTECTION







Advice: Change the filter after each use, or quicker if the atmosphere is polluted, humid and the air flow (or breathing) is high.





REUSABLE RESPIRATORY

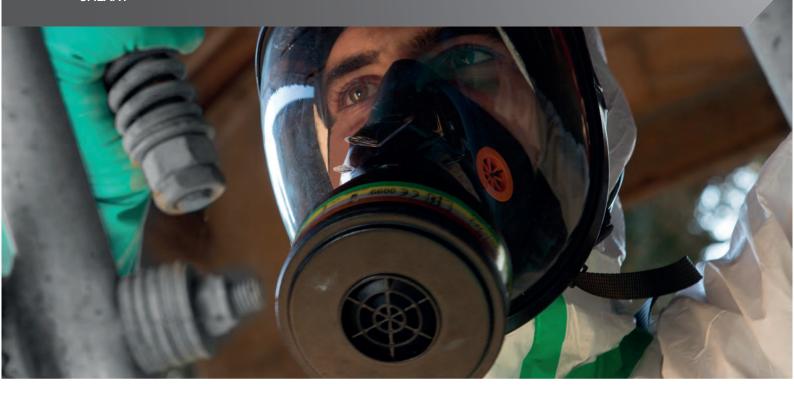




			æ	o [©]		\checkmark	
	M9000E A2	Controlled to	Black	Box of 4 A2 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	C€	EN148-1 EN14387 A2	x 10
	M9000E A2P3		Black	Kit of 4 A2P3 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	C€	EN148-1 EN14387 A2P3R	x 10
	M9000E A2B2E2K2		Black	Box of 4 A2B2E2K2 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	C€	EN148-1 EN14387 A2B2E2K2	x 10
	M9000E A2B2E2K2P3		Black	Box of 4 A2B2F2K2P3 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	C€	EN148-1 EN14387 A2B2E2K2P3R	x 10
	M9000 P3	Control of the second	Black	Kit of 4 P3R filtering cartridges for M9200 ROTOR GALAXY, M9300 STRAP GALAXY full face masks.	C€	EN148-1 EN143 P3R	x 10
	M9000E A2B2		Black	Box of 4 A2B2 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	C€	EN148-1 EN14387 A2B2	x 10
	M9000E A2B2P3		Black	Box of 4 A2B2P3 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	CE	EN148-1 EN14387 A2B2P3	x 10
	M9000E A2B2E2P3		Black	Box of 4 A2B2E2P3 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	CE	EN148-1 EN14387 A2B2E2P3R	x 10
	M9000E A2B2E2K2HGP3		Black	Box of 4 A2B2E2K2HgP3 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	C€	EN148-1 EN14387 A2B2E2K2HgP3R	x 10
	M9000E AX	Trans.	Black	Box of 4 AX filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	C€	EN148-1 EN14387 AX	x 10
	M9000E AXP3		Black	Box of 4 AXP3 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	C€	EN148-1 EN14387 AXP3R	x 10
On request	M9000E B2	September 1	Black	Box of 4 B2 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	C€	EN148-1 EN14387 B2	x 10
0	M9000E B2P3	- Company	Black	Box of 4 B2P3 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	C€	EN148-1 EN14387 B2P3	x 10
	M9000E E2	Trans.	Black	Box of 4 E2 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	C€	EN148-1 EN14387 E2	x 10
	M9000E E2P3		Black	Kit of 4 E2P3 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	C€	EN148-1 EN14387 E2P3	x 10
	M9000E K2	O. Krem A 1	Black	Box of 4 K2 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	C€	EN148-1 EN14387 K2	x 10
	M9000E K2P3		Black	Box of 4 K2P3 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	C€	EN148-1 EN14387 K2P3R	x 10
	M9000E A2B2E2		Black	Box of 4 A2B2E2 filtering cartridges for M9200 ROTOR GALAXY and M9300 STRAP GALAXY full face masks.	CE	EN148-1 EN14387 A2B2E2	x 10

- RESPIRATORY PROTECTION

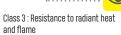
REUSABLE RESPIRATORY *GALAXY*











⇒Use in extreme conditions



Rotor® system (patented)

Registered design, registered ROTOR® brand, patented fastening system

Simple and quick adjustment with or without gloves



Adjustable size S/ M/ L ⇒Suitable for most types of faces



Extra large field of vision (210°) ⇒Guaranteed maximum visual comfort

M9300 - STRAP GALAXY















Tightening with silicone straps →Precise adjustment



Compatible with other PPE ⇒Can be used with a safety helmet





The first complete mask that can be set and adjusted with one hand!

	æ	o [©]	HILLIP	•	V	<u></u>	*
M9200 - ROTOR Galaxy		Silicone full face mask with innovative ROTOR® system adjustment (patented), one-hand use even when wearing gloves. Wide polycarbonate screen (210°). Inside silicone half-mask to reduce mist and increased comfort (3 inhalation valves, an exhalation valve, phonic system). Adjustable sizes: S, M, L. Compatible with EN148-1 type cartridges as M9000 range, sold separately. Storage bag included.			EN136	682 g	
M9300 - STRAP GALAXY	Black-Orange	Silicone full face mask with strap adjustment. Wide polycarbonate screen (210°). Inside silicone half-mask to reduce mist and increased comfort (3 inhalation valves, an exhalation valve, phonic system). Adjustable size. Shoulder strap to hold the mask when not in use. Compatible with EN148-1 type cartridges M9000 range, sold separately. Storage bag included.	Adjustable	CE	EN148-1	616 g	х6





One of the key points to evaluate the performance of a complete respirator, and therefore the protection optimised for the user, is the adjustment. A good mask is in fact useless if the user adjusts it incorrectly on his face. Moreover, in some work situations, you have to work quickly and well. From this observation was born our idea to develop a complete mask that can adjust ultra quickly.

Marie Pourcher, Head Protection Product Expert

REUSABLE RESPIRATORY

	æ	o [©]	JULI	V	*
M6200 JUPITER		Comfort half mask in tri-material: Half mask body in Thermo-plastic Elastomer (TPE) - Support for cartridge anchorage in polyethylene HD (HDPE) - Valve protective housing in polypropylene (PP). Elastic straps. To be used with 2 filter cartridges, M6000 series, sold separately. Cardboard packaging.			
M6100 JUPITER	Black-Grey	Comfort half mask in tri-material: Half mask body in Thermo-plastic Elastomer (TPE) - Support for cartridge anchorage in polyethylene HD (HDPE) - Valve protective housing in polypropylene (PP). Elastic straps. To be used with 1 filter cartridges, M6000 P3, M6000 PREP3 or M6000 A1, sold separately. Cardboard packaging.	Adjustable	C€ EN140	x 15
M6400 JUPITER		Comfort half mask bi-filter: Half mask body in polypropylene (PP) - Thermplastic (TPE) overmould. Elastic straps. To be used with 2 filter cartridges, M6000 series, sold separately. Shell packaging.	M/L		

M6200 JUPITER















M6000 Bayonet anchor →Compatible with the M6000 cartridge range (gas and particles)



M6100 JUPITER















M6000 Bayonet anchor **⇒**Compatible with the M6000 cartridge range (gas and particles)



M6400 JUPITER















Thermoplastic over moulding (TPE) : Secured joints

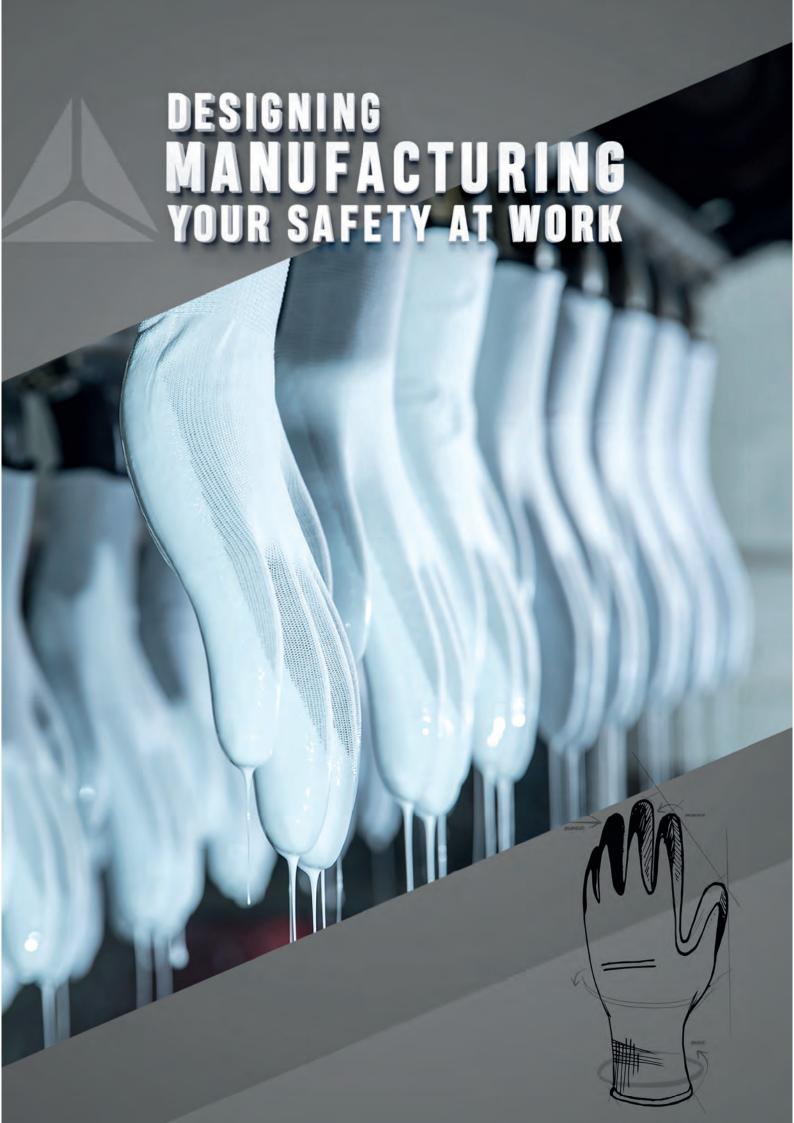
- **⇒**Low breathing resistance
- ⇒Enhanced security





	æ	o ^o	LIGHT			
M6400 MARS KIT	Black-Grey	Comfort half mask with bi filters: Half mask body in polypropylene (PP) - Thermoplastic molding (TPE). With 2 filter cartridges A2 and 2 prefilters P2. Elastic straps. Plastic shell packaging.	M/L	(€ A E	:N140 :N14387 :2 :N143 :2R	x10
M6400 SPRAY KIT	Black-Grey	Comfort half mask with bi filters: Half mask body in polypropylene (PP) - Thermoplastic molding (TPE). With 2 filter cartridges A2 and 2 prefilters P3. Elastic straps. Plastic shell packaging.	M/L	C € A E	:N140 :N14387 :2 :N143 :SR	x 10
M6400 CHEM KIT	Black-Grey	Comfort half mask with bi filters: Half mask body in polypropylene (PP) - Thermoplastic molding (TPE). With 2 filter cartridges ABEK1 and 2 prefilters P3. Elastic straps. Plastic shell packaging.	M/L	(€ A E	E N140 E N14387 1B1E1K1 E N143 E3R	x10
M6000 A1	Grey	Pack of 2 A1 filtering cartridges for M6000 JUPITER serie half masks.		C€ A	: N14387 1	x 30
M6000E A2	Grey	Pack of 2 A2 filter cartridges for M6200 JUPITER half-mask and M6400-JUPITER half mask.		C€ A	: N14387 2	x 30
M6000E ABEK1	Grey	Pack of 2 AIBIEIKI filter cartridges for M6200 JUPITER half-mask and M6400-JUPITER half mask.		C€ A	E N14387 1B1E1K1	x 30
M6000E PREP2	Grey	Set of 6 P2 pre-filters and 2 adapters for M6000 JUPITER half-mask serie. To use with M6000E filters.		C€ ₽	E N143 P2R	x 30
M6000E PREP3	Grey	Set of 2 P3 pre-filters and 2 adapters for M6000 JUPITER half-mask serie. To use with M6000E filters.		C€ P	E N143 P3R	x 30
M6000 P2 CLIP	Grey	Set of 2 P2 filter cartridges for M6000 JUPITER serie half masks + 20 spare disposable filters.		C€ P	: N143 P2NR	x 30
M6000 P2	Grey	Pack of 2 P2 filter cartridges for M6000 JUPITER serie half masks.		C€₽	: N143 P2R	x 30
M6000 P3	Grey	Pack of 2 P3 filter cartridges for M6000 JUPITER serie half mask.		C€₽	I N143 P3R	x 30





HIGH-TECH GLOVES

- 070 help with choice
- 072 Handling of sharp-edged objects

HAND PROTECTION

- 084 Anti static works
- 086 Precision work
- 088 General handling
- 090 Handling in oily environment

SYNTHETIC GLOVES

- 104 Help with choice
- 106 Works in industry
- 108 Works requiring chemical resistance
- 120 Disposable

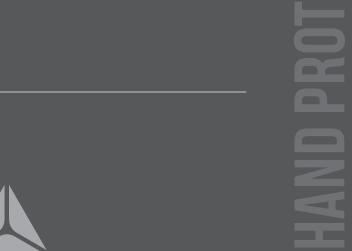
LEATHER GLOVES

- 124 Help with choice
- 125 Handling in cold environment
- 126 Handling in wet environment
- 128 General handling
- 132 Welders works
- 136 Handling in cold environment

KNITTED GLOVES

- 135 Handling requiring cut and heat resistance
- 137 Small handling

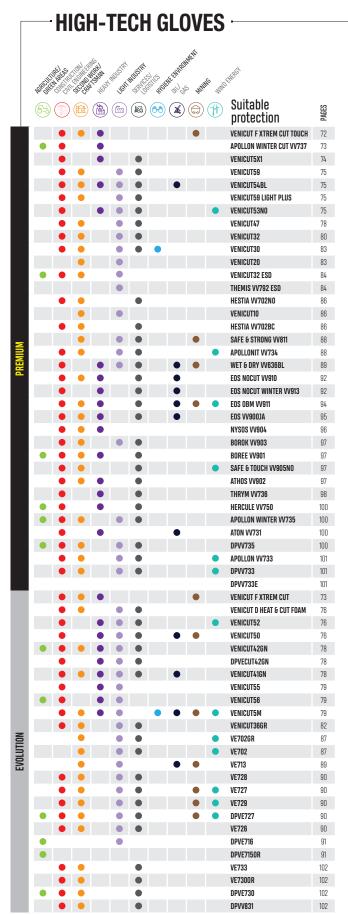
393 • TECHNICAL INFORMATION





HELP WITH CHOICE





	PRESENT		ANGEL INGER	MUSTRY	MUSIRY	islus islus	M. Childe	AG MINO	Helici	
	6- 3 1 5) 🗎			(H&)	<u>OO</u>	X	1	Suitable protection	PAGES
	•							•	VENICUT58	77
	•	•	•				•		ECONOCUT5M	77
	•	•							VENICUT57G3	77
	•		•	•				•	VENICUT44	79
	•							•	VENICUT43	79
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	•	•							DPVECUT34	83
		•		•	•				VENICUT33	83
		•							VE702PG	87
ESSENTIEL		•		•	•				VE702PN	87
E		•							DPVE702PG	87
ES	• •	•							DPVE702PN	87
									VE702P	87
		•							DPVE702P	87
	•	•					•		VE715GR	91
		•	•					•	VE712GR	91
	•	•			•			•	VE722	91
		•							DPVE712GR	91
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	•	•							VE630	103

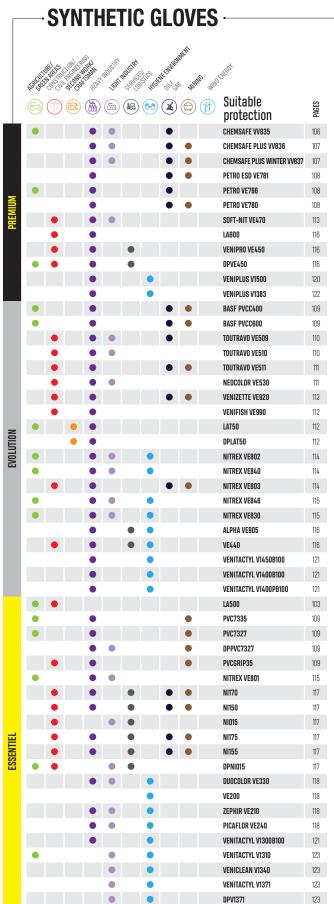


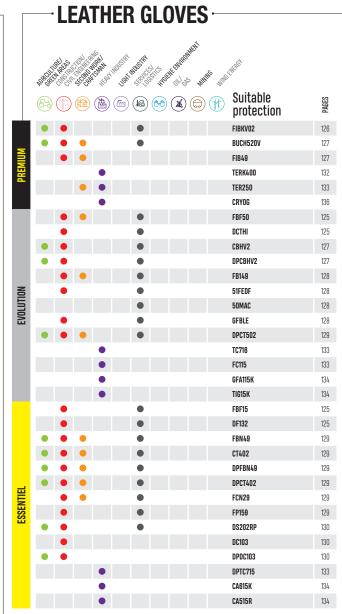
HOW TO IDENTIFY SIZES?

6	7	8	9	10	11	12
RED	YELLOW	BROWN	BLACK	BLUE	GREY	GREEN

IMPLEMENTATION OF A COLOUR-CODING SYSTEM FOR HIGH-TECHGLOVES AND SOME LEATHER GLOVES:

UNIFORM SIZES FOR EASY IDENTIFICATION. REFER TO PAGE 383 TO FIND THE CORRECT SIZE





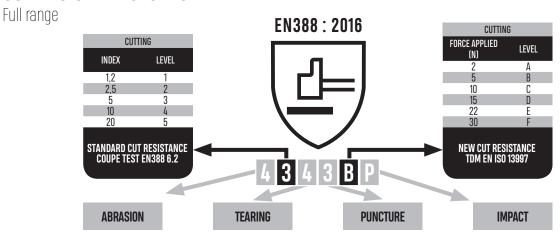




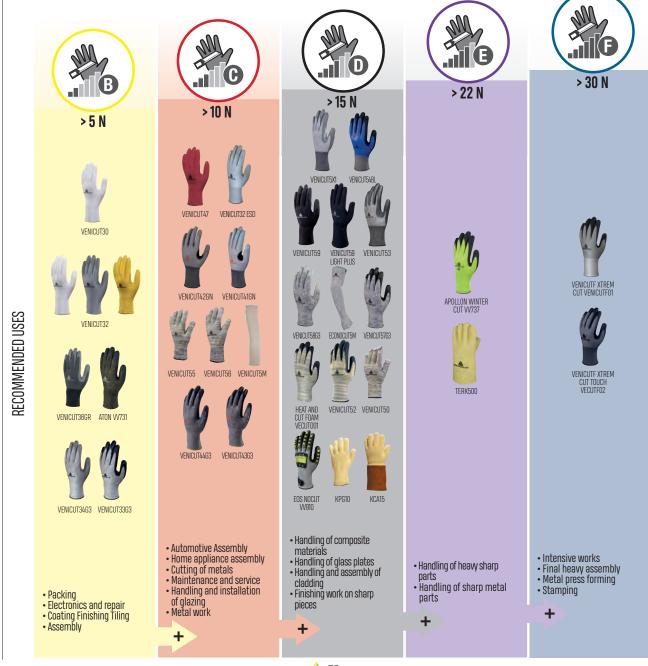
HELP WITH CHOICE



CUT RESISTANT GLOVES

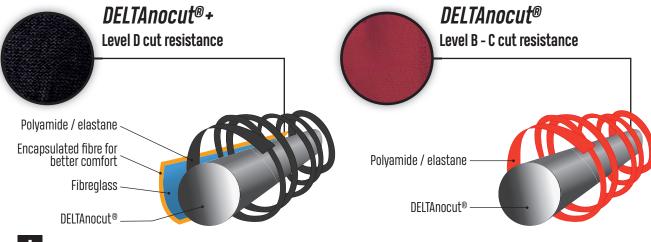


For gloves made of very resistant materials (materials that blunt the blade during the test), the Coupe Test is no longer relevant, a TDM test becomes mandatory. The TDM test is also more representative of work situations with high risk of cut.



CUT RESISTANT GLOVES

The fibres



Mono-fibre polymer high resistance Maximum dexterity

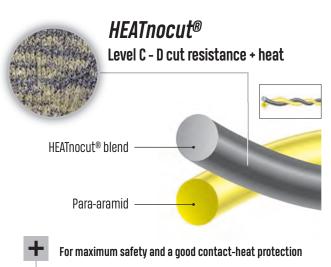
DMF free: total material safety, protection of the handled objects.

Washable: hygienic, gloves can be re-used.

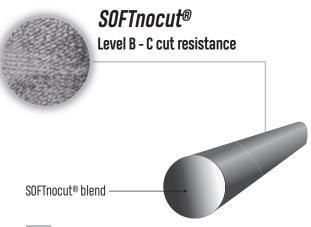
Reduced thickness: Fine touch and better breathability.

Soft touch: texture provides comfort and feeling of freshness all day.

Available in gauge 15 and 13



Maximum cut resistance. High level of abrasion resistance. Heat resistance up to 100°C (until 250°C for VENICUT50 and VENICUT52).



To combine safety and comfort

Excellent **cut** resistance Maximum abrasion performance Soft fibre: High level of **comfort** Available in gauge 15 and 18



ECOnocut® Level B - C - D cut resistance

ECOnocut® blend

To combine safety and attractive price

Different levels of cutting resistance **Good** abrasion performance Economical fibre: good price Gauge 13: high level of dexterity



HANDLING OF SHARP-EDGED OBJECTS

The perfect combination of the thinnest gauge on the market (gauge 18) and the highest cut protection level (TDM F).

	€	o ^o	LILLE	V		
VENICUT F XTREM CUT TOUCH	Navy blue-Black	Xtrem CUT® high performance fibre. Foam nitrile and TPU coating on palm and fingertips. Gauge 18.	06 / 07 / 08 / 09 10 / 11	C € EN388 (AL	ANSI-ISEA 105 A6	x 60

VENICUT F XTREM CUT TOUCH





















Fibre Xtrem CUT®

- ➡The highest level of cut protection on the market
- **⇒**Comfort and flexibility for heavy work

- Nitrile/TPU foam blend

 ⇒Flexibility and dexterity

 ⇒Reduced transpiration thanks to its very good breathability





	€	o [©]	LIGHT	V	
VENICUT F XTREM CUT	Grey-Black	Xtrem CUT® high performance fibre. Gritty foam nitrile coating on palm and fingertips. Gauge 13.	06 / 07 / 08 09 / 10 / 11	EN388 4 X 4 3 F	
APOLLON WINTER CUT VV737	Fluorescent yellow-Black	Acrylic/high performance polyethylene fibre. Foam latex coating on palm and fingertips. Gauge 10.	08 / 09 / 10 / 11	EN388 3 X 4 3 E ANSI-ISEA 105 A5 EN511 X 3 X	x 60



VENICUT F XTREM CUT















Fibre Xtrem CUT®

- →The highest level of cut protection on the
- ⇒Comfort and flexibility for heavy work





APOLLON WINTER CUT VV737

















Cut protection and brushed acrylic support

- ⇒Ideal in extreme environments
- → Maintains heat

 → Very good cut protection (level E)



Protection from the cold ightharpoonup Ideal in cold environments







→Increased breathability (feeling of freshness)

→Dexterity and comfort

HANDLING OF SHARP-EDGED OBJECTS

Safety assured thanks to the combination of anti-cut and leather reinforcement threads. Great resistance for intensive work all day!



	€	o [©]	Little	\checkmark	
VENICUT5X1	Grey	DELTAnocut®+ high performance fibre. Polyurethane coating and cowhide on palm and fingertips. Gauge 13.	09 / 10 / 11	CE EN388 4 X 4 3 D ANSI-IS AS	EA 105 x 60

VENICUT5X1















Polyurethane coating ⇒Very soft and breathable material bringing comfort and dexterity

⇒Good abrasion and tear resistance







Split leather →Reinforced abrasion

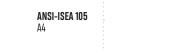
resistance ⇒Suitable for heavy work

We started from the need of operators in the automotive industry to combine strength, dexterity and finesse of touch. With a particularly complex technical challenge: to develop the shape of the piece of leather that must both fully respect the anatomy of the hand and the technicality of the fibre of a cut protection glove. Also, we are proud to present one of the most best current technical advances in the field of the protection glove.

Laetitia Guillerm, Hand Protection Product Expert



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VENICUT59	Black	nne mien nn nnitena anentariivila	07 / 08 / 09 10 / 11	EN388 ANSI-ISEA 105	
VENICUT59 LIGHT PLUS		DELTAnocut®+ high performance fibre. 12 cm cuff. Gauge 13.	06 / 07 / 08 09 / 10 / 11	EN388 ANSI-ISEA 105 A3 A3	
VENICUT54BL	Royal blue- Black	DELTAnocut®+ high performance fibre. Double nitrile coating. Gauge 13.	08 / 09 / 10 / 11	EN388 4 X 4 3 D ANSI-ISEA 105	····· x 60
VENICUT53NO	Black	DELTAnocut®+ high performance fibre. Nitrile micro-foam coating on palm and fingertips. Gauge 15.	07 / 08 / 09 / 10	EN388 A4 3 D	



















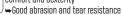




Washable ⇒Increased lifespan



- Polyurethane coating ⇒Very soft and breathable material bringing
- comfort and dexterity











VENICUT59 LIGHT PLUS

163



DELTAnocut® fibre

⇒Very soft texture for great comfort all day

DELTAnocut®+

- ⇒Excellent cut resistance (level D)
- ⇒Unparalleled finesse of touch

VENICUT54BL





















Double nitrile coating for oily work

- ⇒1st smooth nitrile coating : impermeable to oils
- ⇒2nd nitrile foam coating : good adhesion





High coating ⇒Very good protection of the hand

⇒Long life of the glove

VENICUT53NO





























⇒Good grip in oily/ greasy environment

Nitrile foam

- ⇒Increased breathability (feeling of freshness)
- →Dexterity and comfort

HANDLING OF SHARP-EDGED OBJECTS

	æ	o ^c	LIJUL	₹	
VENICUT D HEAT & CUT FOAM	Yellow-Grey- Black	HEATnocut® high performance fibre. Gritty foam nitrile coating on palm and fingertips. Gauge 13.	07 / 08 / 09 / 10 / 11	EN388 4 X 4 2 D EN407 X 1 X X X X	
VENICUT52	Yellow-Black	HEATnocut® high performance polyethylene fibre. Latex coating on palm and fingertips. Gauge 10.	07 / 08 / 09 / 10	C € EN388 3 X 4 2 D EN407 X 2 X X X X	x 60
VENICUT50	Yellow-Grey	HEATnocut® High performance polyethylene fibre. Cowhide on palm and fingertips. Gauge 10.	09 / 10	EN388 4 X 4 3 D EN407 X 1 X X X X	

VENICUT D HEAT & CUT FOAM

















- Nitrile foam coating

 ⇒Excellent resistance to abrasion
- ⇒Rough finish for excellent grip on handled objects





HEATnocut® High Performance Polyethylene →Contact heat and cut resistance

VENICUT52



















Latex coating

- ⇒Good resistance to abrasion
- ⇒Rough finish for excellent grip on handled objects



VENICUT50





	æ	o [©]	LIGHT		
VENICUT58	Grey	ECONOCUT® high performance fibre. Polyurethane coating on palm and fingertips. Gauge 13. Bag of 3 pairs.	07 / 08 / 09 / 10	EN388 ANSI-ISEA 105 4 X 4 2 D A3	x 40
ECONOCUT5M	White-Black	ECONOCUT® high performance fibre. Knitted sleeve with thumbhole. Length 55 cm. Gauge 13. Bag of 1 pair.	One size	C E EN388 4 X 4 X D ANSI-ISEA 105	x 60
VENICUT57G3	Grey-Black	ECONOCUT® high performance fibre. Nitrile coating on palm and fingertips. Gauge 13. Bag of 3 pairs.	07 / 08 / 09 / 10	EN388 ANSI-ISEA 105 4 X 4 3 D A3	x 40



VENICUT58

























ECONOCUT5M

















VENICUT57G3

















HANDLING OF SHARP-EDGED OBJECTS

	•	o [©]	LIFE	\checkmark	
VENICUT47	Red	DELTAnocut® high performance fibre. Polyurethane coating on palm and fingertips. Gauge 13.	06 / 07 / 08 09 / 10 / 11	EN388 4 X 4 2 C	x 60
VENICUT42GN		SOFTnocut® high performance fibre. Polyurethane coating on palm and	07 / 08 / 09 / 10 / 11	EN388 4 X 4 3 C ANSI-ISEA 105	
DPVECUT42GN	Grey	fingertips. Reinforcement between the thumb and index finger. 10 cm cuff. Gauge 15.	09	ANSI ANSI-ISEA IUS	x 36
VENICUT41GN		SOFTnocut® high performance fibre. Nitrile coating on palm and fingertips. Reinforcement between the thumb and index finger. 10 cm cuff. Gauge 15.	07 / 08 / 09 / 10 / 11	EN388 4 X 4 4 C	x 60

VENICUT47





















- Polyurethane coating
 Very soft and breathable material bringing comfort and dexterity
 Good abrasion and tear resistance



- DELTAnocut® ⇒Good cut resistance (level C)
- ⇒Unparalleled finesse of touch (13 gauge)





Washable ⇒Increased lifespan

VENICUT42GN























Also available with header card ⇒DPVECUT42GN

10 cm





Reinforcement between the thumb and index finger

- ⇒Increased protection
- ⇒Increased lifespan

VENICUT41GN



























Reinforcement between the thumb and index finger

- ⇒Increased protection ⇒Increased lifespan



	•	o ^o	LIGHT	♥	
VENICUT55		HEATnocut® High performance polyethylene fibre. Gauge 10.	07 / 09 / 10	EN388 2 X 4 X C EN407 X 1 X X X X	v.100
VENICUT5M	Yellow-Grey	HEATnocut® High performance polyethylene fibre. Knitted sleeve with thumbhole. Length 45 cm. Gauge 13.	One size	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	x 120
VENICUT56		HEATnocut [®] High performance polyethylene fibre. PVC dots on palm. Gauge 10.	07 / 09 / 10	S X 4 X C EN407 ANSI-ISEA 105	x 60
VENICUT44	Orace Diagram	ECONOCUT® high performance fibre. Polyurethane coating on palm and fingertips. Gauge 13. Bag of 3 pairs.	07 / 00 / 00 / 10	EN388 4 X 4 2 C	
VENICUT43	· · · Grey-Black	ECONOCUT® high performance fibre. Nitrile coating on palm and fingertips. Gauge 13. Bag of 3 pairs.	- 07 / 08 / 09 / 10	EN388 4 X 4 3 C	x 40

VENICUT55















HEATnocut® High Performance Polyethylene

- **⇒**Contact heat (100°C for 15 seconds), and cut resistant
- ⇒Very good level of abrasion resistance











VENICUT56













VENICUT5M



















VENICUT44

















VENICUT43





























HIGH-TECH GLOVES

HANDLING OF SHARP-EDGED OBJECTS



VENICUT32

















Polyurethane coating

- → Very soft and breathable material bringing comfort and dexterity
- →Very good abrasion and tear resistance



Washable ⇒Increased lifespan





great comfort all day



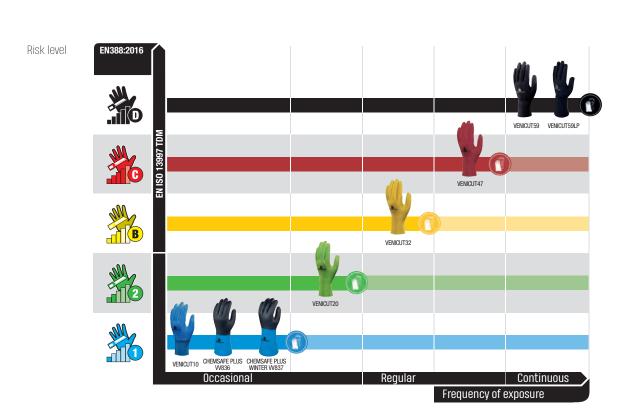






The choice of glove suited to the level of risk, ensured by the visual cue, guarantees work in secure conditions. A whole range dedicated to this approach.

	æ	o ^o	tilit		✓	
	Yellow	DELTAnocut® high performance fibre.	•			
VENICUT32	Grey	Polyurethane coating on palm and	06 / 07 / 08 09 / 10 / 11	C € EN388 4 X 4 2 B	ANSI-ISEA 105	x 60
	White	fingertips. Gauge 15.		•		



Blue: safe work without major risk (<5N) **Green:** working with low cut risk (micro-cuts) (5N) **Yellow:** working with moderate cut risks (6.5 N)

Red: working with high cut risks, requiring regular wear of the glove (14 N) **Black:** working with very high cut risks, requiring the daily wear of the glove (16 N)



Initiated by the INRS approach, our concept is available in 5 colours, each associated with a different level of danger. This concept helps safety engineers to verify the proper wearing of the glove corresponding to the identified risk.

Coloured tablets are also provided by our teams during the validation of the concept during the study of the position. This allows all stakeholders to see that the glove worn is suitable.

This represents a significant gain for a company (optimisation of purchase costs) but also guarantees carriers to always be well protected!

Laetitia Guillerm, Hand Protection Product Expert

HANDLING OF SHARP-EDGED OBJECTS

Its design with an 18 gauge cut protection thread makes this model one of the thinnest gloves in the field of cut protection.

	•	o ^o	LILLIA	V	
VENICUT36GR	Grey	SOFTnocut® High performance fibre. Nitrile coating on palm and fingertips. Gauge 18.	06 / 07 / 08 / 09 / 10 / 11	C E EN388 ANSI-ISEA 105	x 120

VENICUT36GR



























Gauge 18 ⇒Very good dexterity and work finesse (Thin gauge of the market)





Launched 3 years ago, specifically for engineers in the aviation sector. The challenge was to develop an innovative glove that combines protection, dexterity, sense of touch with a level of adequate cut resistance, the VENICUT36 was created! The choice of its coating and its colour are not by chance either: the nitrile was necessary to quarantee working safely in an oily environment. The transparent colour is a real benefit for users in maintenance operation. Visual control remains crucial with this type of task.

Laetitia Guillerm, Hand Protection Product Expert



	æ	o ^c	J JJJJ S	•	~	l		
VENICUT30	White	DELTAnocut® high performance fibre. Gauge 15.	06 / 07 / 08 / 09 / 10	[EN388 4 X 4 X B			x 60
VENICUT20	Green	Polyamide/Spandex. Polyurethane coating on palm and fingertips. Gauge 15.	06 / 07 / 08 /		EN388 4242B			
VENICUT34		ECONOCUT® high performance fibre. Polyurethane coating on palm and fingertips. Gauge 13. Bag of 3 pairs.	09 / 10 / 11	(€	<u> </u>	ANSI-ISEA 105 A2	x 40	
DPVECUT34	Grey	ECONOCUT® high performance polyethylene fibre. Polyurethane coating on palm and fingertips. Gauge 13.	07 / 09	EN388 3 X 4 2 B				x 120
VENICUT33		ECONOCUT® high performance fibre. Nitrile coating on palm and fingertips. Gauge 13. Bag of 3 pairs.	06 / 07 / 08 / 09 / 10 / 11		EN388 3 X 4 3 B			x 40





VENICUT20 Gauge 15 Very good dexterity and work finesse Polyurethane coating Very soft and breathable material bringing comfort and dexterity Good abrasion and tear resistance

VENICUT34



ANTI STATIC WORKS

The range specially designed for Electrostatic Discharge (ESD) environments!

VENICUT32 ESD



















DELTAnocut® fibre ⇒Very soft texture and optimal fit for all-day comfort



Polyurethane coating

- ⇒Very soft and breathable material
- bringing comfort and dexterity ⇒Good abrasion and tear resistance





Carbon fibre ⇒High electrostatic dissipation to reduce the risk of explosion

THEMIS VV792 ESD















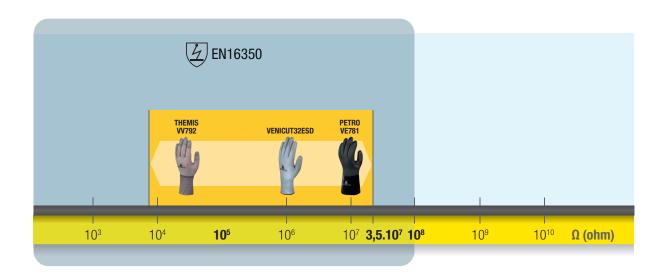


Copper fibre →More efficient than carbon in electrostatic discharge





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VENICUT32 ESD	Grey	DELTAnocut® high performance fibre and carbon fibre. Polyurethane coating on palm and fingertips. Gauge 15.	06 / 07 / 08	EN388 4 X 4 2 C EN16350 (ANS) ANSI-ISEA 105	x 60
THEMIS VV792 ESD	Rust-coloured-Grey	Copper polyamide. Polyurethane coating on fingertips. Gauge 15.	09 / 10 / 11	EN388 X13XX EN16350	
PETRO ESD VE781	Black	Chemical PVC. PVC on cotton knitted lining gauge 13 with metal fiber. Rough- textured palm. Length: 30 cm. Thickness: 1.30 mm.	08 / 09 / 10 / 11	€ EN388 4121X EN374-1 TYPE B 12 > 30 mn K6 > 480 mn L4 > 120 mn EN374-5 EN16350	x 120



According to EN16350, electrostatic properties of protective gloves, the electrical resistance through a glove must be less than 10⁸ Ω. These gloves help protect you from the risk of explosion by dissipating (as much as possible) the electro-static electricity naturally present in the human body. They must be used in conjunction with shoes and antistatic clothing. The user must also be grounded. The performance obtained on our gloves ensures a high level of efficiency.



Car industry stakeholders are always looking for productivity gains. For this, they are aimed at manufacturers who can develop, design and manufacture products that meet their expectations. Their major wish was to have a versatile glove, protecting both the risk of cutting (level B) but also allowing dissipation of the electrostatic charge : we have developed the VENICUT32 ESD for them ! Coming from a best-sellers market (VENICUT32GR), this new model completes a deep range and is suited to all needs!

Laetitia Guillerm, Hand Protection Product Expert

PRECISION WORK

The quality and fineness of the weave makes this model one of the most comfortable gloves on the market.

	•	o ^c	LIGHT	\triangleleft	
HESTIA VV702NO	Black		06 / 07 / 08	EN388	
HESTIA VV702BC	White		09 / 10	4131X	
VENICUT10	Blue	100% polyamide. Polyurethane coating on palm and fingertips. Gauge 15.	06 / 07 / 08 09 / 10 / 11	C € EN388 4131X	x 120

HESTIA VV702NO HESTIA VV702BC



















Gauge 15 ⇒Very good dexterity and work finesse



Double polyamide weave ⇒Very high density support for very good support and maximum dexterity







The HESTIA model has the distinction of having a double density polyamide knit. Our basic idea was to allow wearers to have a feeling of comfort and support until the end of the working day. Composed of an association between a high quality polyamide and a very flexible polyurethane coating, this glove is an ally of choice! A winning choice for workers!

Laetitia Guillerm, Hand Protection Product Expert

VENICUT10





















Protection from mechanical risks and the handled object (imprints, sweating)





Polyurethane coating →Very soft and breathable material bringing comfort and dexterity

⇒Good abrasion and tear resistance



→Very good dexterity and work finesse



	•	o ^c	JUL		
VE702GR	Grey	: 100% polyamide. Polyurethane coating on palm and fingertips.	06 / 07 / 08 09 / 10	C € ☐ EN388 3121X	
VE702	White	Gauge 13.			x 240
VE702PG	Crov	100% polyester. Polyurethane coating on palm and fingertips. Gauge 13.			
DPVE702PG	···· Grey		06 / 07 / 09		x 120
VE702P	White		06 / 07 / 08 09 / 10		x 240
DPVE702P			07 / 09		x 120
VE702PN	Black		06 / 07 / 08 09 / 10 / 11		x 240
DPVE702PN			09 / 10		x 120

VE702GR



























Grey colour → Handling of soiled objects

VE702













VE702PG











Also available with header card →DPVE702PG

VE702P











Also available with header card →DPVE702P



VE702PN











Also available with header card →DPVE702PN



GENERAL HANDLING

	æ	o [©]	JULIA	V	\$
SAFE & STRONG VV811	Navy blue-Grey	, ,	06 / 07 / 08 / 09 10 / 11	EN388 4131X	100
APOLLONIT VV734	Fluorescent yellow-Black	Polyamide/Spandex. Foam nitrile and TPU coating on palm and fingertips. Gauge 15.	07 / 08 / 09 / 10	EN388 4121X	x120

SAFE & STRONG VV811















Solvent-free coating

- ⇒Suitable for sensitive people
- ⇒Respectful of the environment
- →Ideal for the automotive industry →No traces on the objects handled



Water-base polyurea : soft, breathable and abrasion resistant → Limit hand fatigue → Reduction of perspiration → Increased lifespan













APOLLONIT VV734





Nitrile/TPU foam quality

►Level of abrasion twice as good











Gauge 15

⇒Finesse of touch →Very comfortable



Nitrile/TPU foam blend ➡Flexibility and dexterity

→Reduced transpiration thanks to its very good breathability







	€	o ^c	LIGHT	V	
WET & DRY VV636BL	Blue-Black	100% polyamide. Full nitrile coating of the hand. Second foam nitrile coating on palm and fingertips. Gauge 15.	07 / 08 / 09 / 10	EN388 4131X	x 120
VE713	Black	100% polyamide. Double nitrile coating on palm, fingers and half back. Gauge 13.		EN388 3121X	x 240

WET & DRY VV636BL

















100% polyamide support →Very good comfort



Double nitrile coating for oily work →1st smooth nitrile coating :

- impermeable to oils
- ⇒2nd nitrile foam coating : good







VE713

















Nitrile coating

→ Very good mechanical performance

⇒Good grip in oily/ greasy environment



High coating

⇒Very good protection of the hand

- Double coating →Increased lifespan →Very good resistance to abrasion





HANDLING IN OILY ENVIRONMENT

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VE728	Grey-Black	Polyester/ acrylic. Foam nitrile coating on palm and fingertips. Nitrile dots on palm. Gauge 13.	07 / 08 / 09 / 10	EN511 X 1 X	
VE727		Polyamide/Spandex. Nitrile/Polyurethane coating on palm and	#0 0 0 0 0 0	€ EN388	
DPVE727		fingertips. Nitrile dots on palm. Gauge 15.	07 / 09	C €	x 120
VE729		Polyamide/Spandex. Nitrile/polyurethane coating on palm, fingertips and mid back. Nitrile dots on palm. Gauge 15.	07 / 08 / 09 / 10		
VE726		Polyamide/Spandex. Nitrile/Polyurethane coating on palm and fingertips. Gauge 15.	07 / 08 / 09 / 10 / 11		•

VE728























Non-slip dots ⇒Good grip of handled objects







Brushed acrylic interior →Maintains heat

VE727

























Gauge 15 →Very good dexterity and work finesse



Non-slip dots ⇒Good grip of handled objects VE727 - VE729



Also available with header card ⇒DPVE727







- ⇒Oil resistance ⇒Flexibility of work and increased comfort
- ⇒Very good mechanical performance VE727 - VE729 - VE726

VE729



























VE726

















	•	o [©]	, ijiji k		\checkmark	
VE715GR	Black-Grev	100% polyester. Nitrile coating on palm, fingertips and half-back. Gauge 13.	07 / 08 / 09 / 10		EN388	x 120
VE712GR	,		07 / 08 / 09 / 10 / 11		EN388 3121X	x 240
DPVE712GR	Grey-Black	- 100% polyester. Nitrile coating on palm and fingertips. Gauge 13.	09			x 120
DPVE716	Orange	Foam nitrile on polyamide lining. Fully coated. Gauge 15.	07 / 09 / 10	CE	EN388 4121	x 60
DPVE715	White-orange	100% polyester. Nitrile coating on palm, fingertips and half-back. Gauge 13.	07 / 09	٠	EN388 2121X	v 190
VE722	Grey-Black	100% polyester. Foam nitrile coating on palm and fingertips. Gauge 13.	07 / 08 / 09 / 10		EN388 4121X	···· x 120

VE715GR



















VE712GR













Also available with header card ⇒DPVE712GR

DPVE715



Nitrile coating →Very good mechanical performance

⇒Good grip in oily/ greasy environment

DPVE716









Available only with header card



Flexible Nitrile Foam Coating







Available only with header card





VE722











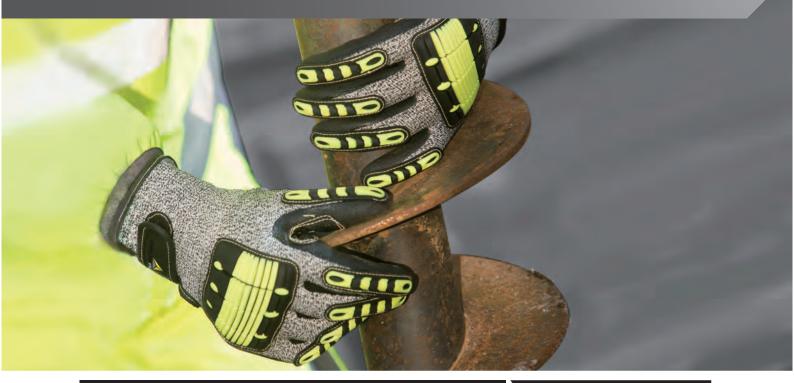








GENERAL HANDLING



EOS NOCUT VV910

























Washable ⇒Increased lifespan



Double nitrile coating for oily work ⇒1st smooth nitrile coating :

- impermeable to oils ⇒2nd nitrile foam coating : good



Available only with header card



Flexible reinforcements →Increased protection from impacts and pinches



Protection against impact in the metacarpal area. After an energy impact of 5J, the force transmitted to the back of the hand cannot exceed 4 kN.



Reinforcement between the thumb and index finger and on the palm. →Increased protection



EOS NOCUT WINTER VV913

















Acrylic interior support ⇒Excellent comfort all day long

→Maintains heat



Very good abrasion and cut resistance

ightharpoonupIncreased lifespan

Kevlar® thread stitching ⇒Increased lifespan

8 cm cuff with Velcro closure

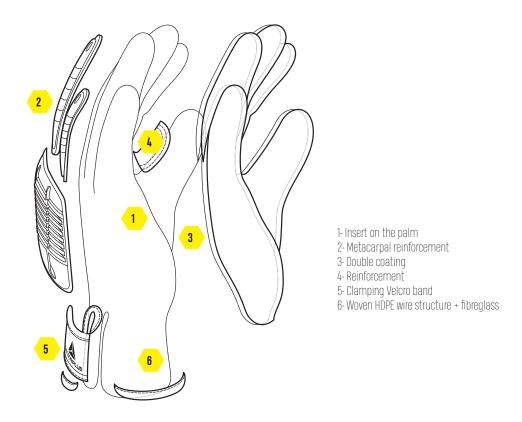
ightharpoonupPerfect adjustment

→ Reduced discomfort at the wrist, during prolonged use



Safe, qualitative and very comfortable; the EOS NO CUT is surely one of the gloves with the most interest on the market!

	•	o [©]	LILLE	V		
EOS NOCUT VV910	Yellow-Grev-	High performance polyethylene support. Thermoplastic (TPR) reinforcement on back and fingertips. Smooth nitrile coating/foam nitrile on palm and fingertips. Embossed inside reinforcement on palm. Kevlar® thread on all the seams.		EN388 4 X 4 3 D P	ANSI-ISEA 105 A3	
EOS NOCUT WINTER VV913	Black	High performance polyethylene support. TPR reinforcement on back and fingertips. Double smooth nitrile coating/foam nitrile on palm and fingertips. Embossed inside reinforcement on palm. Inside acrylic lining. Kevlar® thread on all the seams.	- U8 / U9 / 1U / 11	EN388 4 X 4 4 D P EN511 1 3 X	ANSI-ISEA 105	x 6U





Initially, we developed this glove for targeted uses in the oil industry, but in the end, it has shown more usage possibilities! We have combined several materials and techniques to make this "multi-protection" glove: cut resistant thread, nitrile double coating, reinforcements to protect from pinching and shocks. This versatility makes EOS NOCUT a must-have on the market.

Laetitia Guillerm, Hand Protection Product Expert

HIGH-TECH GLOVES

GENERAL HANDLING



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EOS OBM VV911	Blue-Yellow	Nitrile on cotton jersey lining. Double coating. Length: 40 cm.	08 / 09 / 10 / 11	EN388 3112 X P EN374-1 TYPE C A 2 > 30 mn EN374-5	x 60

EOS OBM VV911























Protection of the metacarpals 5J ⇒Flexible reinforcements for better protection against impact and pinching.



Cut cotton interlock stitched
→ Absorption of perspiration and moisture for improved comfort in everyday life



header card







Protection against impact in the metacarpal area. After an energy impact of 51, the force transmitted to the back of the hand cannot exceed 4 kN.

Nitrile

➡Versatile and powerful material from chemicals, fats and oils

Double coating **→**Increased lifespan

Length: 40 cm

⇒Complete arm protection



	•	o ^o	LIFT	\checkmark	
EOS VV900JA	Yellow-Grey- Black	Polyester/polyurethane back. PVC reinforcements. Polyamide/polyurethane palm with PVC dots. Kevlar® seams. 8 cm cuff in neoprene.	08 / 09 / 10 / 11 / 12	CE EN388 ANSI-ISEA 105	x 60

EOS VV900JA

























Double layer of polyamide/ polyurethane on palm with non-slip PVC dots

good abrasion resistance →Good grip of handled objects









Reinforcement between the thumb and index finger and on the palm. ⇒Increased lifespan



Flexible reinforcements

→Increased protection from impacts and pinches



Identification badge ⇒Belt attachment







Yellow colour ⇒Easy visual identification at the workstation

Velcro closure

⇒Perfect adjustment

⇒Reduced discomfort at the wrist, during prolonged use

8 cm cuff in neoprene

⇒Good glove retention for high security

Protection of the metacarpal area against low energy shocks <23

GENERAL HANDLING

	æ	o [©]	jiji	\checkmark	
NYSOS VV904	Yellow-Black	100% Polyester. Palm and fingertips reinforced with rubber pads (0.8 cm thick). Thermoplastic (TPR) back reinforcement. Gauge 7.	10 / 11	C € EN 18010819	x 60

NYSOS VV904





















Available only with header card



Single coated glove reduces impact, shock and vibration effects Flexible reinforcements ⇒Increased protection from impacts and pinches



Protection of the metacarpals 53



Anti-vibration ightharpoonsReduction of musculoskeletal disorders





- ⇒Soft weave (seamless) for comfortable long wear
- ⇒Good dexterity and grip

Protection against impact in the metacarpal area. After an energy impact of 51, the force transmitted to the back of the hand cannot exceed 4 kN.



	€	o [©]	Little	>	
BOROK VV903	Grey-Black	Polyester back with polyurethane coating. Polyurethane/polyester palm. 3M Thinsulate™ lining. Neoprene wrist.	07 / 09 / 11	EN388 1221X EN511 1 0	
SAFE & TOUCH VV905NO	Black-Yellow	Polyester/elasthane back. Artificial leather palm. Cuff in neoprene.	07 / 08 / 09 / 10 / 11	C €	x 60
BOREE VV901	Vollow Crov		07 / 09	□ FN388	
ATHOS VV902	Yellow-Grey- Black	Polyester/elasthane back. Polyamide palm. PVC reinforcements on back and palm. Cuff in mesh.	10 / 11	EN388 3131X	



→Reduced discomfort at the wrist, during

prolonged use





Available only with

header card







Aerated back ightharpoonupVery good ventilation of the hand



Available only with header card





- HIGH-TECH GLOVES

GENERAL HANDLING COLD PROTECTION



THRYM VV736















- Double full latex coating →1st smooth latex coating : waterproof
- ⇒2nd foam latex coating : good $\quad \text{adhesion} \quad$



Very good resistance to cold and

⇒Ideal in cold environments down to -30°C



Brushed acrylic support

- → Maintenance of warmth during outdoor work
- ⇒Great comfort of use







The versatility of the protections make these gloves real assets in all climatic circumstances!

	€	o [©]	LIFE	V	
THRYM VV736	Light Blue	Inside: 100% acrylic gauge 10. Outside: 100% polyamide gauge 15. Full latex coating of the hand. Second foam latex coating on palm and fingertips.	09 / 10 / 11	EN388 2 2 4 2 X EN511 1 2 1 1	x 60

Extremely cold conditions Very light activity levels or special applications requiring additional

Very cold conditions Light activity levels where the wearer generates little body heat through activity

Cool climate conditions when warmth is needed





THRYM VV736 Ideal in all climatic conditions.. possibly perfect glove!



APOLLON WINTER CUT W737 The glove for working in extreme conditions! A very high level of cut protection combined with protection from the cold!



ATON VV731 The multi-protection glove!



It is due to listening to our users, demanding gloves assuring several simultaneous protections, including that from the cold that we worked with the convergence of several standards. This ranges from a waterproof glove performing in a cold environment with contact heat resistance to versatile glove that includes touch function or glove combining thermal hazards and cut resistance (Level B or E). Our hybrid gloves become true allies for workers!

Laetitia Guillerm, Hand Protection Product Expert



GENERAL HANDLING COLD PROTECTION

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HERCULE VV750	Black	Inside: 100% acrylic gauge 7. Outside: 100% polyamide gauge 13. 3/4 foam nitrile coating on palm, fingers and half back.	09 / 10	EN388 3 2 3 3 X 2 X 2 X	
APOLLON WINTER VV735	Grey-Black Fluorescent yellow-Black	100% acrylic. Foam latex coating on palm and	mo 0 0 0 0 0	EN388 EN511 1132X 1	
DPVV735	Fluorescent orange-Black	fingertips. Gauge 10.	09	CE ~ 1105%	x 60
ATON VV731	Black	Polycotton/Para-aramide. Latex coating on palm and fingertips. Gauge 10.	08 / 09 / 10 / 11	EN388 3342B EN407 X2X XXX	

HERCULE VV750



















Protection from the cold ⇒ldeal in cold environments down to -15°C

High coating →Very good protection

of the hand





- →High comfort
- →Heat preservation (interior acrylic support)
- → High dexterity (outer polyamide support)

ATON VV731





















- ⇒Good resistance to abrasion ⇒Rough finish for excellent grip on handled objects

DPVV735

APOLLON WINTER VV735



















Available only with DPVV7350R







Latex foam Increased breathability (feeling of freshness) Dexterity and comfort



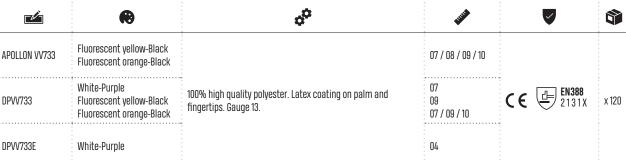
Brushed acrylic support Maintenance of warmth during outdoor work Great comfort of use



- HIGH-TECH GLOVES

GENERAL HANDLING LATEX COATING





APOLLON VV733 DPVV733 DPVV733E

APOLLON VV733

























Also available with header card DPVV7330R DPVV733JA DPVV733VL DPVV733E









DPVV733







DPVV733E





Latex foam

- ➡Increased breathability (feeling of freshness)
- **→**Dexterity and comfort

Fluorescent support ⇒Easy visual identification at the workstation

GENERAL HANDLING

	æ	o [©]	J juji *	\checkmark	
VE733	Orange-Navy Blue	100% polyester. PURE® latex coating on palm and fingertips. Gauge 13.	07 / 08 / 09 / 10 / 11	EN388 2142A EN407 X2X XXX	
VE7300R	Vollow orongo	Polycotton. Rough latex coating on palm and	08 / 09 / 10 / 11	C€	x 120
DPVE730	Yellow-orange	fingertips. Gauge 10.	08 / 10	EN388 2142X	
DPVV831	Green	Polycotton. High quality latex coating on palm, fingertips and mid back. Gauge 10.	07 / 08 / 09 / 10		

VE733



















Embossing finish ⇒Good grip of handled objects

⇒Very good adhesion in wet or dry environments







PURE® latex coating

Material complies with the
REACH regulations and respectful of the environment ►Minimises the risk of skin

irritation

VE7300R















Also available with header card ⇒DPVE730











	•	o ^c	title	\checkmark	
VE631	Blue-Black	100% polyester. Foam latex coating on palm and fingertips. Gauge 13.	07 / 08 / 09 / 10	EN388 2131X	
VE630	Grey-Black	100% polyester. Latex coating on palm and fingertips. Gauge 13.	07700709710	— 2131X	v 190
VE799	White	Polycotton. Transparent full coating in natural latex on full hand and laminated red latex on palm and fingertips. Gauge 10.	10	EN388 3132X	x 120
LA500	Green	Latex rough-textured on cotton Interlock lining. Knitted wrist. Ventilated back.	07 / 08 / 09 / 10	EN388 2121X	



VE631





















VE799









LA500









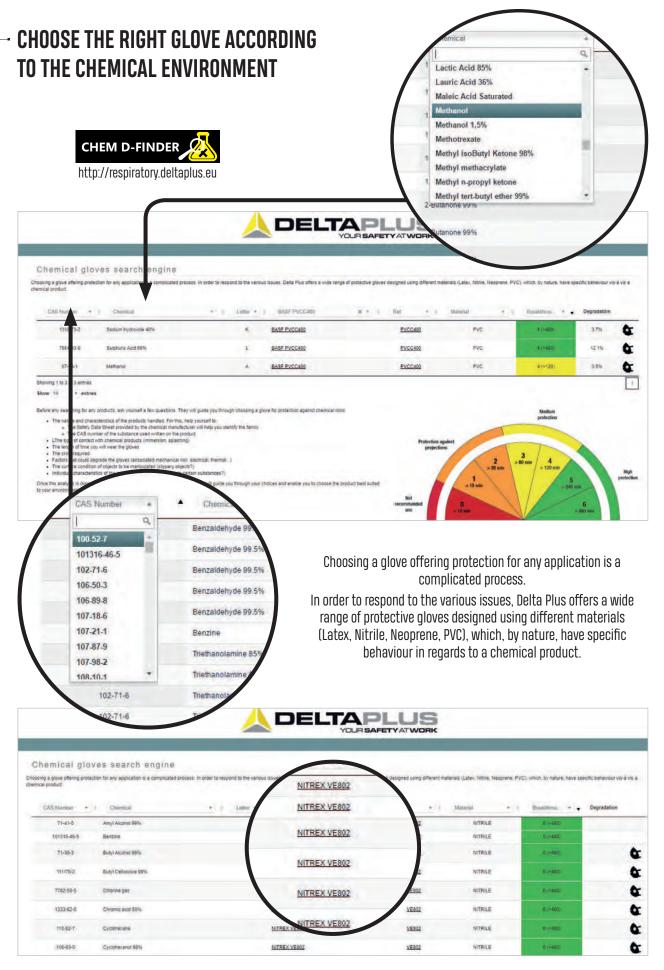


Cotton interlock support with ventilated back →Comfort →Increased breathability

Quality coating **Good grip**

HELP WITH CHOICE







1

SUPPORTED OR NOT SUPPORTED?

SUPPORTED: WHAT TYPE OF SUPPORT?

• Cotton: Natural fibre

Exceptional comfort - Excellent capacity to absorb moisture - Insulating properties.

• Polyamide: Synthetic fibre, also called Nylon

Resistance to traction and abrasion - Elasticity and shape memory - Washable.

• Polyester: Synthetic fibre

Resistance to traction and abrasion - Possibility to blend with cotton to enhance comfort.

• Kevlar®: Para-aramid fibre

Heat and Cut Resistance - Carbonised between 425° and 475° - Self extinguishing - Softness and high dexterity - Washable.

NON-SUPPORTED:

The mould is dipped directly into the material bath. Thus, the glove is very supple and allows high dexterity.

Different types of non supported gloves:

- Flocked (finished with a deposit of cotton particles): Pleasant to the touch, limits transpiration and facilitates donning and removal.
- Chlorinated (finished by washing the glove in chlorinated water): Gives a velvety touch and limits the effects of latex protein allergies.

Different types of disposable glove:

- Powdered (finished with a deposit of powder): Pleasant to the touch, limits transpiration and facilitates donning and removal.
- Non powdered (finished by washing the glove in chlorinated water): Gives a velvety touch and limits the effects of latex protein allergies.

SYNTHETIC GLOVES

-: NOT RECOMMENDED •: LOW ••: GOOD •••: VERY GOOD

NIBELL BUILDES					
MILLELIC REALES	Polyurethane	Latex	Nitrile	Neoprene	PVC
Abrasion	•••	••	•••	••	•••
Cutting	••	••	••	••	••
Perforation	••	•••	•••	•	•
Tearing	•••	••	•••	•	••
Elasticity / Flexibility / Dexterity	•••	•••		••	•
Degradation (heat contact, UV,)	•••	•	••	•••	•••
Risks of allergy	•	•••	•	•	•
Cold environment	••	•••	• (-40°C)	•••	•••
Warm environment	••	•••	••	•••	• (>80°c)
Oily / greasy environment	•		•••	••	•••

		Latex	Nitrile	Neoprene	PVC
Acetates	Acetate of ethyl (I)	-	••	••	•
Acids	Sulfuric acid (L),	•••	••	•••	•••
Primary alcohol	Methanol (A)	•••	•••	•••	••
Aldehydes (Alcohols & Ketones)	Formaldehyde 37% (R),	••	•	•	•
Amine	Diethylamine (G),	-	•	-	-
Bases (Lime, Sodium hydroxide)	Caustic soda (K),	•••	••	•••	•••
Ketone and ketone solvents	Acetone (B)	•••	-	•	•
Ether	Tetrahydrofuran (H)	-	-	-	-
Hydrocarbons and derivatives	Acetonitrile (C), n-Heptane (J),	-	•••	•••	••
Aromatic solvents (styrene)	Toluene (F), Xylene	-	•••	•	•
Chlorinated solvents	Dichloromethane (D)	-	•••	•	
Aqueous solutions		•••	•••	•••	•••

CHEMICAL PRODUCT FAMILY

GENERAL FEATURES

SYNTHETIC GLOVES

WORKS IN INDUSTRY



	•	o o	JULI	\checkmark	
CHEMSAFE VV835	Green	Double nitrile coating on polyamide lining. Third rough foam nitrile coating on palm and fingertips. Length: 35 cm. Thickness: 1.15 mm on cuff - 1.30 mm on palm.	08 / 09 / 10 / 11	EN374-1 TYPE B AJKL A 2 > 30 mn J 3 > 60 mn K 5 > 240 mn L 2 > 30 mn	x 60

CHEMSAFE VV835























Rough structure palm →Very good grip







Triple nitrile coating →Good resistance to abrasion

	•	o [©]	J JJJJ J	▼	
CHEMSAFE PLUS VV836		Double PVC/nitrile coating on polyamide lining. Gauge 18. Third rough PVC/nitrile coating on hand. Length: 30 cm. Thickness: 1 mm on cuff - 1.10 mm on palm.		EN388 3121X EN374-1 TYPE B KLMP K 6 > 480 mm	
CHEMSAFE PLUS WINTER VV837	Blue	Double PVC/nitrile coating on acrylic lining gauge 10. Third rough PVC/nitrile coating on hand. Length: 30 cm. Thickness: 1.15 mm on cuff - 1.35 mm on palm.	09 / 10 / 11	EN388 3121X EN511 1 1 1	x 60













Brushed acrylic support
Maintaining heat for
good thermal protection
High comfort

WORKS REQUIRING CHEMICAL RESISTANCE

	æ	o ^o	LILLIA	♥	
PETRO ESD VE781	Black	Chemical PVC. PVC on cotton knitted lining gauge 13 with metal fiber. Rough-textured palm. Length: 30 cm. Thickness: 1.30 mm.	08 / 09 / 10 / 11	EN388 4121X EN374-5 EN16350 EN374-1 TYPE B	x 120
PETRO VE766	Pluo	Chemical PVC. PVC on cotton knitted lining gauge 13. Rough-textured hand. Length: 62 cm. Thickness: 1.30 mm.	08 / 09 / 10	☐ SIXL J2 < 30 mn K6 < 480 mr K6 < 480 mr L4 > 120 mn	x 60
PETRO VE780	Blue	Chemical PVC. PVC on cotton knitted lining gauge 13. Rough-textured hand. Length: 30 cm. Thickness: 1.30 mm.	00 / 0 0 / 10	€ EN374-5	x 120

PETRO ESD VE781



















Textured structure ⇒Good grip of handled objects







⇒Good resistance to abrasion

derivatives Metallic fibre

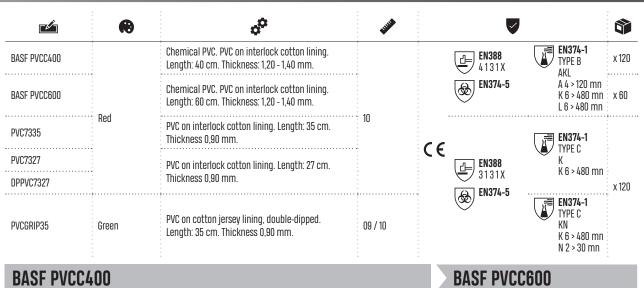
PVC

→ High electrostatic dissipation to reduce the risk of explosion

→Material very resistant to oils, chemicals and petroleum

PETRO VE766 PETRO VE780 Textured structure ⇒Good grip of handled objects ⇒Good resistance to 62 cm abrasion →Material very resistant to oils, chemicals and petroleum derivatives 30 cm Length: 62 cm ightharpoonupComplete arm protection





BASF PVCC400







(











→Material very resistant to oils, chemicals and petroleum derivatives



Length: 40 cm ⇒Forearm protection





of the environment ⇒Reliable for all applications in contact with food



PVC7335













PVC7327





PVCGRIP35











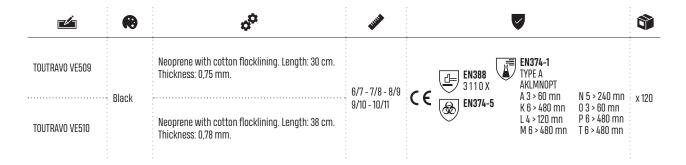
Knit cotton jersey 10 gauge ➡Absorption of perspiration and moisture for improved comfort in everyday life





Textured structure ⇒Good grip of handled objects

WORKS REQUIRING CHEMICAL RESISTANCE



TOUTRAVO VE509

















Embossed structure on palm and fingers →Improved object grip



TOUTRAVO VE510















Embossed structure on palm and fingers ⇒Good grip of handled objects





⇒Versatile and highly efficient material against heat, detergents, alcohols, chemicals, greases and hydrocarbons

→Absorption of perspiration for comfort

	€	o ^o	, ijus	♥	
TOUTRAVO VE511	Black	Neoprene on cotton knitted lining gauge 10. Length: 38 cm. Thickness 1,40 mm.	9/10 - 10/11	EN388 2132X EN374-5 EN374-5 EN374-5 EN374-5 EN374-5 EN374-5 EN374-7 A 6 > 480 mn D 3 > 60 mn C 6 > 480 mn C 7 = 7 = 7 = 7 = 7 = 7 = 7 = 7 = 7 = 7	
NEOCOLOR VE530		Latex/Neoprene mix with cotton flocklining. Length: 30 cm. Thickness: 0,70 mm.	6/7 - 7/8 - 8/9 9/10 - 10/11	EN388 2121X EN374-5 EN374-5 EN374-1 TYPE A JKLNPT J 2 > 30 mn N 3 > 60 mn K 6 > 480 mn P 6 > 480 mn L 4 > 120 mn T 6 > 480 mn	x 120

TOUTRAVO VE511





















Cotton knit gauge 10

Absorption of perspiration and moisture for improved comfort in everyday life











Neoprene →Versatile and highly efficient material against heat, detergents, alcohols, chemicals, greases and hydrocarbons

NEOCOLOR VE530





















Flocked inside

➡Absorption of perspiration for comfort

WORKS REQUIRING CHEMICAL RESISTANCE

	•	o [©]	JULU		
VENIZETTE VE920	Blue	Latex on interlock cotton lining. Length: 30 cm. Thickness: 1,25 mm.	6/7 - 7/8 - 8/9 9/10 - 10/11	EN388 4121X EN407 X1X XXX EN374-5 EN374-5 EN374-5 EN374-7 TYPE A AKLMNPT A 2 > 30 mn K 6 > 480 mn N 3 > 60 mn L 4 > 120 mn P 6 > 480 mn M 6 > 480 mn T 6 > 480 mn T 6 > 480 mn T 6 > 480 mn	x 120
VENIFISH VE990	Orange		•	(6	
LAT50	Croon	Latex on interlock cotton lining. Rough textured palm and back. Length: 30 cm.	7/8 - 8/9 - 9/10 10/11	EN388 3121X EN407 EN374-5 EN374-1 TYPE A AKLMNPT A 6 > 480 mn K 6 > 480 mn	
DPLAT50	Green	Thickness: 1,80 mm.	7/8 - 9/10	X1X XXX	

VENIZETTE VE920





















Versatile glove

→ Resistance to chemicals and contact heat of 100°C for 15 seconds

Structure on very rough palm

⇒Excellent grip of very slippery objects







Cut cotton interlock stitched

Absorption of perspiration and
moisture for improved comfort in
everyday life

VENIFISH VE990 LAT50 Property 100°C Versatile glove Resistance to chemicals and contact heat of 100°C for 15 seconds Cut cotton interlock stitched Absorption of perspiration and mosture for improved comfort in everyday life



	•	o ^{to}	Little	lacksquare	
SOFT-NIT VE470	Blue	Latex/ Nitrile, smooth chlorinated interior. Length: 30 cm. Thickness: 0.40 mm.	6/7 - 7/8 - 8/9 9/10 - 10/11	EN388 2 0 11 X EN374-1 TYPE B AKL A 2 > 30 mn K 6 > 480 mn L 2 > 30 mn	x 120



SOFT-NIT VE470























Chlorinated interior

Easy glove implementation

High comfort

Less risk of allergies





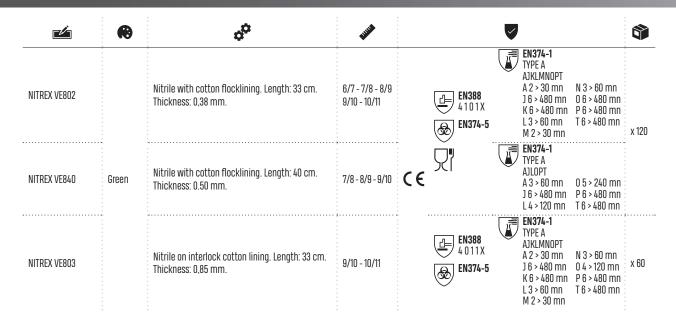


Thickness : 0.40 mm ⇒Fine touch

Blue colour ➡Ideal in food environment due to its easy visual identification

Latex/Nitrile blend ➡Polyvalent

WORKS IN INDUSTRY



NITREX VE802























Embossed structure on palm and fingers ⇒Good grip of handled objects NITREX VE802 - NITREX VE840



Flocked inside →Absorption of perspiration for comfort NITREX VE802 - NITREX VE840

NITREX VE840



























NITREX VE803



























perspiration and moisture for improved comfort in everyday





Textured structure **⇒**Good grip of handled obiects



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NITREX VE846	Green	Thin nitrile. Chlorinated smooth inside. Length: 46 cm. Thickness: 0,55 mm.	8/9 - 9/10 10/11		EN388 4102X A3 > 60 mn	n : x 36 n :
NITREX VE830	Blue	Thin nitrile. Chlorinated smooth inside. Length: 33 cm. Thickness: 0,20 mm.	7/8 - 8/9 9/10 - 10/11	C€	EN388 2 0 0 0 1 X TYPE A JKLOPT J 6 > 480 mn	n :
NITREX VE801	Green	Nitrile with cotton flocklining. Length: 33 cm. Thickness: 0,40 mm.	07 / 08 / 09 / 10 / 11		EN388 3101X TYPE B JKL J 6 > 480 mn K 6 > 480 mn L 3 > 60 mn	

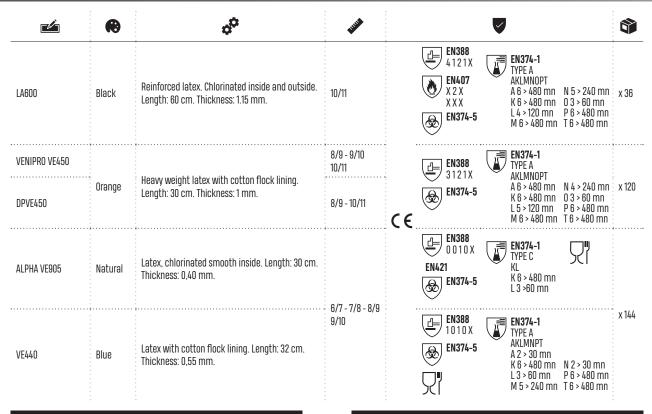








WORKS IN INDUSTRY

















Very thick and long ⇒Enhanced protection of the arm





VENIPRO VE450















Also available with header card ⇒DPVE450



ALPHA VE905













Tested according to standard EN421 **⇒**Can be used as a glove or under glove against radioactive contamination



Chlorinated interior ⇒Easy glove



implementation → High comfort Less risk of allergies



→Airtightness and water proofing ⇒Flexibility, elasticity and tactility

VE440















Rough structure ⇒Improved object grip



Flocked inside ➡Absorption of perspiration for comfort





	•	n ^o	j juja di karangan k	\checkmark	
NI170		Nitrile on cotton jersey lining. 6-cm canvas safety cuff. Ventilated back.	10		
NI175	Dive	Nitrile on cotton jersey lining. 6-cm canvas safety cuff. Fully coated.	09 / 10 / 11	EN388	
NI150	·· Blue	Nitrile on cotton jersey lining. Knitted wrist. Ventilated back.	07 / 08 / 09 / 10	₹ 3111X	x 120
NI155	•	Nitrile on cotton jersey lining. Knitted wrist. Fully coated.	10	CE	
NI015	V-II	Light nitrile on interlock cotton lining. Knitted wrist. Ventilated	07 / 08 / 09 10 / 11	[∠ EN388	
DPNI015	··· Yellow	back.	10	<u>−</u> 2111X	

NI170









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Safety cuff 6 cm ⇒Good protection of the garment

⇒Easy implementation

Cotton jersey lining with ventilated back

⇒Comfort

➡Increased breathability



Nitrile on cotton jersey lining →Not very sensitive to heat →Ideal in oily and greasy environments





6-cm safety cuff ⇒Good protection of the garment

⇒Easy implementation

Fully coated hand →Protection of the back of the hand

NI150









































Cotton jersey lining with ventilated back

- **⇒**Comfort
- ➡Increased breathability







NI015











Also available with header card →DPNI015



WORKS IN INDUSTRY

	€	o [©]	, in the same of t	0 0 0 0	\checkmark		
DUOCOLOR VE330	Blue-Yellow	Latex with cotton flock lining, double-dipped. Length: 30 cm. Thickness: 0,60 mm.			EN388 1010 X EN374-5	EN374-1 TYPE A AKLMNPT A 2 > 30 mn K 6 > 480 mn L 3 > 60 mn M 5 > 240 mn N 2 > 30 mn P 6 > 480 mn T 6 > 480 mn	
ZEPHIR VE210	Pink	Latex with cotton flock lining. Length: 30 cm. Thickness: 0,38 mm.	6/7 - 7/8 - 8/9 9/10	C€	EN374-5 EN374-5	EN374-1 TYPE C KL K 6 > 480 mn L 3 > 60 mn	x 144
PICAFLOR VE240	Yellow	Latex with cotton flock lining. Length: 30 cm. Thickness: 0,38 mm.			EN388 1010 X EN374-5	EN374-1 TYPE B KLMPT K 6 > 480 mn L 2 > 30 mn M 4 > 120 mn P 4 > 120 mn T 6 > 480 mn	
VE200		Latex with cotton flock lining. Length: 30 cm. Thickness: 0,33 mm.	-		7.7		

DUOCOLOR VE330











ZEPHIR VE210











PICAFLOR VE240











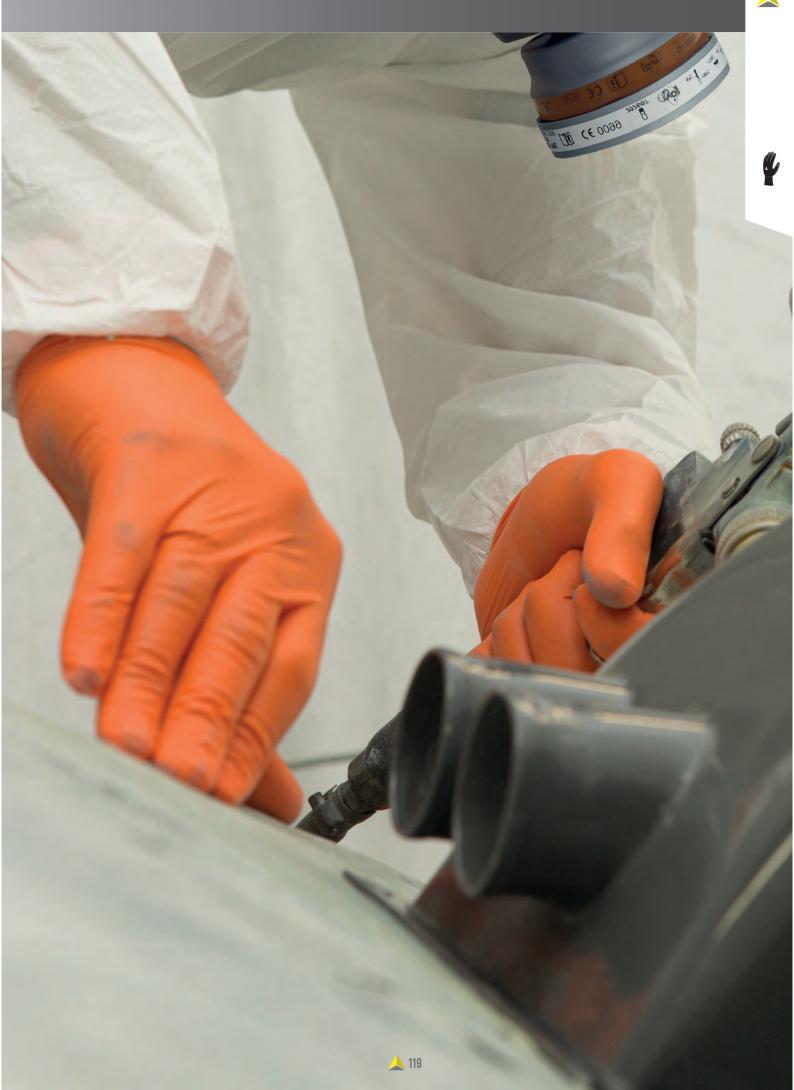


VE200

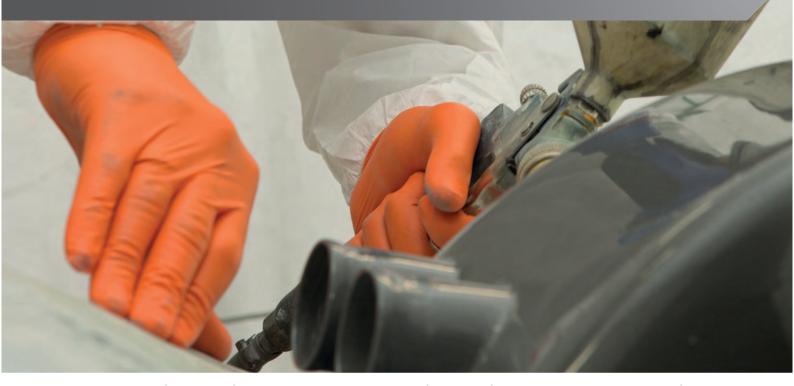








SYNTHETIC GLOVES DISPOSABLE



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VENIPLUS V1500	Orange	Powder-free nitrile. AQL 1,5. Length: 27 cm. Thickness: 0,17 mm. Box of 50 disposable gloves.	7/8 - 8/9 - 9/10 10/11	EN374-5 EN455-1 EN455-2 EN455-3 EN374-1 TYPE B KPT K 6 > 480 mn P 5 > 240 mn T 6 > 480 mn	

VENIPLUS V1500















- →Airtightness and water proofing
 →Flexibility, elasticity and tactility
 →No risk of allergies

Powder-free gloves

→Protection from manipulated objects





Thickness: 0.17 mm

Resistance to chemicals (> 30 min) compared to a conventional disposable glove

Orange colour ⇒Easy visual identification at the workstation

Glove tested in accordance with EN ISO 371-1:2016

Type B

→ Protection from certain concentrated chemicals

	•	o [©]	LIGHT	₹	
VENITACTYL V1450B100	Black	Powder-free nitrile. Suitable for food industry. AQL 1,5. Box of 100 disposable gloves.	6/7 - 7/8 - 8/9 9/10 - 10/11	EN374-5 EN455-1 EN455-2 EN455-3 EN455-3 EN374-1 TYPE B JKT J 3 > 60 mn	
VENITACTYL V1400B100				K 6 > 480 m T 6 > 480 m	
VENITACTYL V1400PB100	Blue	Powdered nitrile. Suitable for food industry. AQL 1,5. Box of 100 disposable gloves.	6/7 - 7/8 - 8/9 9/10	€ EN374-5	XIU
VENITACTYL V1300B100	White	Powder-free nitrile. Suitable for food industry. AQL 1,5. Box of 100 disposable gloves.		EN455-2 EN455-3 TYPE C KT K 6 > 480 m T 6 > 480 m	

VENITACTYL V1450B100















VENITACTYL V1400PB100

- Nitrile

 Airtightness and water proofing

 Flexibility, elasticity and tactility

 No risk of allergies

 VENITACTYL V1450B100

 VENITACTYL V1400B100

 VENITACTYL V1400B100

 VENITACTYL V1300B100

VENITACTYL V1400B100

















Blue colour
Ideal in food environment due to its easy visual identification
VENITACTYL V1450B100
VENITACTYL V1400B100



Glove tested in accordance with EN ISO 371-1:2016 Type B

→Protection from certain concentrated chemicals





Powdered glove ⇒Easy glove implementation



VENITACTYL V1300B100









SYNTHETIC GLOVES DISPOSABLE LATEX



0 • \checkmark EN374-1 Type B Klmpt EN374-5 KLMP1 K 6 > 480 mn L 2 > 30 mn M 4 > 120 mn P 5 > 240 mn T 6 > 480 mn EN455-1 EN455-2 Powder-free latex, chlorinated inside. AQL 1,5. 7/8 - 8/9 - 9/10 10/11 ϵ VENIPLUS V1383 Blue Length: 30 cm. Thickness: 0,25 mm. Box of 50 x 10 disposable gloves. EN455-3

VENIPLUS V1383











Powder-free gloves →Protection from manipulated objects







Glove tested in accordance with EN ISO 371-1:2016 Type B

→ Protection from certain concentrated

chemicals

Extra long and thick glove ➡Thickness : 0.25 mm ➡Longer lifespan and increased safety



	•	o [©]	JUL	\checkmark	
VENITACTYL V1310		Powdered latex. Suitable for food industry. AQL 1,5. Box of 100 disposable gloves.		EN374-5 EN374-1 TYPE C	
VENICLEAN V1340	Natural	Powder-free chlorinated latex. Suitable for food industry. AOL 1,5. Box of 100 disposable gloves.	6/7 - 7/8 - 8/9	EN455-1 K 2 > 30 mn EN455-2 T 6 > 480 mn EN455-3	x 10
VENITACTYL V1371		Powdered vinyl. Suitable for food industry. AQL 1,5. Box of 100 disposable gloves.	6/7 - 7/8 - 8/9 9/10	[TIII]	
DPV1371	Transparent	Powdered vinyl. Suitable for food industry. AQL 1,5. Box of 10 disposable gloves.	7/8 - 9/10	XI	x 60

VENITACTYL V1310













VENICLEAN V1340











Chlorinated interior

- ⇒Easy glove implementation
 ⇒Less risk of allergies (latex
- proteins)





- →Airtightness and water proofing
 →Flexibility, elasticity and tactility
- Powder-free gloves →Protection from manipulated objects

VENITACTYL V1310 VENICLEAN V1340

VENITACTYL V1371









Also available in a box of 10 gloves **⇒**DPV1371





HELP WITH CHOICE



LEATHER GLOVES

AMERICAN ASSEMBLY

Side palm, middle and ring finger form a single piece that is sewn separately to the rest of the palm

















Wing thumb

Docker type

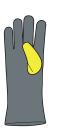
Long wrist or cuff

Latex wrist with vein protection

FOURCHETTE ASSEMBLY

The thumb is sewn separately (thumb added). A strip of material is sewn between each finger (fourchette). The glove perfectly matches the shape of the hand.









Round thumb Gusset on fingers

Choy thumb









CHOOSE THE BEST GLOVE FOR COLD ENVIRONMENTS



• Extremely cold conditions

Very light activity levels or special applications requiring extra heat



Very cold conditions

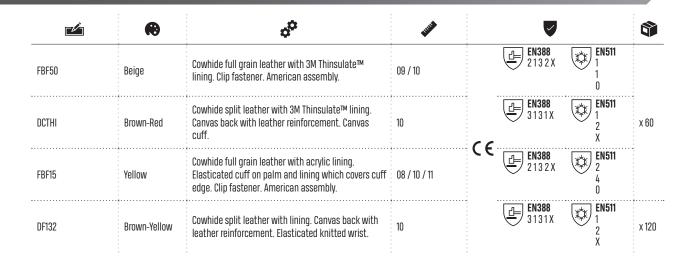
Levels of light activity where the wearer generates little body heat by activity



Fresh climate conditions when light heat is needed

HANDLING IN COLD ENVIRONMENT









FBF15









DF132













HANDLING IN WET ENVIRONMENT

	æ	o [©]	LIGHT	₹ 📦
FIBKV02	Beige	Water-repellent cowhide full grain leather. Reverse hide cowhide full grain leather palm. 100% Kevlar® Technology knitted lining. 2 threads. Gauge 10.	08 / 09 / 10	C € EN420 4.2 4/4 ≥ 180 mn × 60

FIBKV02













⇒Increased resistance to cut, tear, and puncture



Water repellent treatment applied on the reverse hide full grain

→Ten times more effective than the grain







	•	o [©]	LITTLE	$\overline{\mathbf{v}}$		
BUCH520V	Green-Blue	Water-repellent cowhide full grain leather. Palm, thumb and metacarpal in polyester foam. Kevlar® Technology sewn.	08 / 09 / 10 / 11	EN388 3123X		x 36
FIB49	Beige	Water-repellent cowhide full grain leather. Reverse hide cowhide full grain leather palm.	09 / 10	EN388 3122X	EN420 4.2 4/4 ≥ 180 mn	x 120
CBHV2	D#	Water-repellent cowhide full grain leather. American	08 / 09 / 10 / 11	EN388	4/4 2 180 11111	X 12U
DPCBHV2	Buff	assembly. Knitted wrist and vein protection.	08 / 10	€ 2132X		x 60

BUCH520V















Special green spaces glove



Polyester foam on the palm and back →Increased resistance to tearing and perforation

→ High flexibility

⇒Very good resistance to abrasion





GENERAL HANDLING

	æ	o [©]	LILLIA	\checkmark	
FB149	Beige	Cowhide full grain leather. High quality leather. American assembly.	08 / 09 / 10	EN388 3122X	0 0 0 0 0
50MAC	White	Lambskin full grain leather. Reinforced palm. Knitted open-work back.	08 / 09 / 10 / 11		
51FEDF	Notural	Goatskin full grain leather. American assembly. Full index. Knitted wrist and vein protection.	08 / 09 / 10	C €	x 120
GFBLE	Natural	Cowhide full grain leather. American assembly. Knitted wrist and vein protection.	08 / 09 / 10 / 11	EN388 3122X	









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DPCT502	Beige-Green	Cowhide split leather. Polyester canvas back. American assembly.	07 / 09		EN388 3121X	x 60
FBN49		Cowhide full grain leather. American assembly.	07 / 08 / 09 / 10 / 11		EN388	x 120
DPFBN49	Natural	Cowing full grant leacher. American assembly.	10		3122X	x 60
FCN29		Cowhide grain leather palm. Full index. Cowhide split leather back. American assembly.	08 / 09 / 10 / 11	CE	EN388 2121X	x 120
CT402	Natural-Blue	Goatskin full grain leather palm. Cotton jersey back. American	07 / 08 / 09 / 10 / 11		•••••	- X 12U
DPCT402	Blue-White	assembly.	10		EN388 2111X	x 60
FP159	Beige	Pigskin full grain leather. American assembly. Full index.	09 / 10			x 120

DPCT502













Available only with header card



FBN49













Also available with header card →DPFBN49



CT402













Also available with header card →DPCT402



FCN29









FP159











- LEATHER GLOVES GENERAL HANDLING

	€	o ^c	LILLIA	V	
DS202RP	Grey-Blue	Cowhide split leather with cotton canvas lining. Reinforcement on palm, thumb and index. Canvas back with leather reinforcement. Reinforced canvas cuff.		EN388 4223 X	
DC103	Doigo Novy bluo	Cowhide split leather. Canvas back with leather reinforcement.	10	C €	x 120
DPDC103	Beige-Navy blue	Reinforced canvas cuff.		2111X	

DS202RP













DC103







Also available with header card →DPDC103







Exceptional thermal results, a constant quality unmatched in its field thanks to the aluminised Preox made in France.



TERK400

















Developed through KZL know-how, the Delta Plus Group's historic heatresistance glove subsidiary, 25 years ago, this glove is still as popular with users working in a high-risk environment (foundries, ...).

The choice and the combination of the materials were made based on specific criteria combining resistance to heat, resistance to the flame, while quaranteeing optimal quality of work.

Laetitia Guillerm, Hand Protection Product Expert

Aluminised Kevlar® Preox

→ High thermal resistance to radiant heat

THT treated heat resistant leather

- → Decreased responsiveness to flames
- →Increased resistance to contact heat due to its treatment
- ⇒High flexibility of the leather



	•	o [©]	Just	•	V			
TER250	Brown-Grey	Heat-resistant cowhide split leather palm (HR). Wool fleece lining on palm. Cuff with canvas lining. Kevlar® Technology sewn. American assembly. 20 cm cuff. Length: 40 cm.	10		EN388 3243X	EN407 413	x 60	
TC716	Grey	High quality cowhide split leather. American assembly. 15 cm cuff. Length: 35 cm.	09 / 10 / 11	C€	EN388 4122X	X 4 X EN12477 TYPE A	x 120	
DPTC715		Cowhide split leather. 15 cm cuff. American assembly. Length: 35 cm.				4122X		
FC115		High quality cowhide full grain leather palm with full index. Cowhide split leather back and cuff. American assembly. 15 cm cuff. Length: 35 cm.	10		EN388 2132X	EN407 412 X 4 X EN12477 TYPE B	x 60	

TER250















THT treated heat resistant leather ⇒Decreased responsiveness to flames

►Increased resistance to contact heat due to its treatment ►High flexibility of the leather

Kevlar® thread stitching ⇒Self-extinguishing





TC716











Also available with header card ⇒DPTC715









⇒Forearm protection Thick leather

⇒Suitable for heavy duty tasks

FC115











Artery protection →Wrist protection

WELDERS WORKS

	•	o to	LIFLIA	\checkmark		
GFA115K	Grev	Lambskin full grain leather. Cowhide split leather cuff. Kevlar® Technology seams. Fourchette assembly. 15 cm cuff. Length: 35 cm.	10	EN388 2111X	EN407 41X X4X EN12477 TYPE B	x120
TIG15K	oley	Goatskin full grain leather. Cowhide split leather cuff. Kevlar® Technology sewn. American assembly. 15 cm cuff. Length: 35 cm.	08 / 09 / 10	<i>C C</i>	TIPED	x 36
CA615K	Red	High quality heat-resistant split leather (HR). Cuff with canvas lining. Kevlar® Technology sewn. American assembly. Length: 35 cm.	- 10	EN388 3132X	EN407 413 X 4 X EN12477 TYPE A	x 60
CA515R	ncu	Heat-resistant cowhide split leather (HR). Hand with cotton fleece lining. Cuff with canvas lining. American assembly. Length: 35 cm.	10		IIFLA	A UU

GFA115K













⇒Self-extinguishing

TIG15K











Welding and heat-resistant gloves →Resistance to flame, heat

and splashes of molten metal

Goat leather

- ⇒Flexibility and dexterity ⇒Good mechanical resistance

CA615K









CA515R



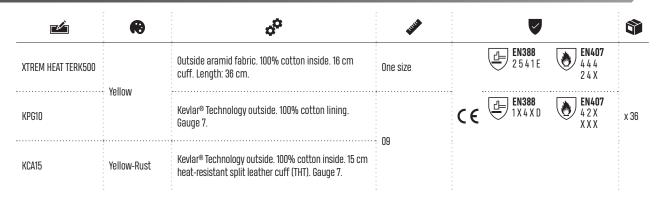






HANDLING REQUIRING CUT AND HEAT RESISTANCE





Your best ally in extreme conditions!

XTREM HEAT TERK500

















Double insulation ⇒Optimum performance for cuts and heat



The construction of the glove in superposition of layers →Protection from the effects of contact heat

- ⇒Un to 250°C for 1 minute
- ⇒Up to 500°C for 30 seconds





We have used the best materials to create this glove that offers a quaranteed protection up to 500°C in contact heat. It is the ideal glove for the foundry and steelmaking trades.

Laetitia Guillerm, Hand Protection Product Expert

KPG10



















Knit Gauge 7 ⇒Excellent compromise between thermal resistance and dexterity





KCA15





- →Decreased responsiveness to flames ⇒Increased resistance to contact heat due to its
- treatment ⇒High flexibility of the leather







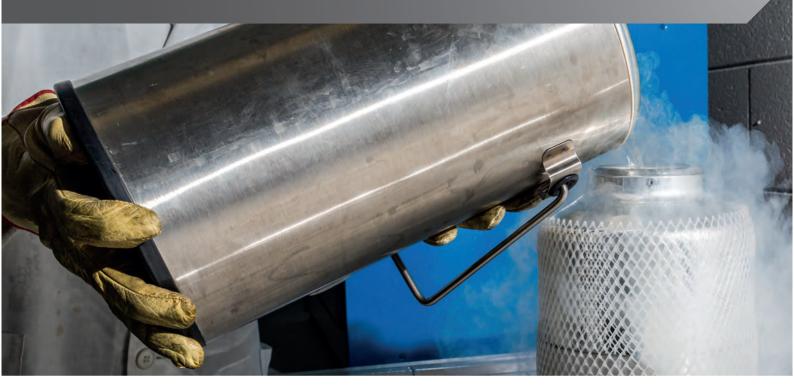




⇒Optimum performance for cuts and heat thanks to the thickness with the cotton lining

- LEATHER GLOVES

HANDLING IN COLD ENVIRONMENT



	æ	o ^c	FIGUR	V		
CRYOG	Straw-coloured	Water-repellent cowhide full grain leather. Aluminized polyester insert. Cowhide split leather cuff. Hand and cuff in synthetic. American assembly. 20 cm cuff. Length: 40 cm.	10		EN511 2 3 X x 36 EN420 4.2 4/4 ≥ 180 mn	

CRYOG











Water repellent leather **⇒**Good splash protection



Tested with liquid nitrogen using method MR019

→Work in all safety up to -196°C (a few seconds)



Velcro tape →Adjustable fit



Aluminised polyester →Thermal protection







- Superior quality

 Increased lifespan

 Comfortable to wear

 Flexibility

L. KNITTED GLOVES SMALL HANDLING



	•	o _C	, juli	V	
PM159		100% foam polyamid. 6-cm long knit wrist. Gauge 13. Ambidextrous.		EN388 214 X X	
PM160	White	100% foam polyamid. 6-cm long knitted wrist. PVC dots on palm. Gauge 13.	07 / 09	214XX	v 200
TP169		Polycotton. PVC dots on palm. Gauge 7.		EN388 X12XX	x 300
CP149	Beige	Brushed drill cotton lining 270 g/m². PVC dots on palm and full thumb, index and little finger. French assembly.	08 / 10		
C0131	Natural	Interlock cotton 100 g/m². Knitted wrist. Gauge 18. Ambidextrous.	07 / 09		x 600
COB40	White	Bleached cotton 180 g/m². Fourchette assembly.	06 / 07 / 08 / 09		X 000

PM159









PM160









TP169







CP149









C0131









COB40







THE ESSENTIAL GLOVES SELECTION FOR YOUR POINT OF SALES

■ BUILDING AND CONSTRUCTION



CUT RESISTANCE DPVECUT42GN **78**



CUTTING WORKS DPVECUT34

7 - 9

₽83



AGILITY DPVE702PG 6 - 7 - 9 ₽87





DPVE730 8 - 10 **102**



WINTER MASONRY DPVV735 **100**



TOOL HANDLING DPFBN49 10 **129**



WELDING DPTC715 10 **133**

■ MULTI PURPOSE



VV900 8 - 9 - 10 - 11 - 12 **95**



VV901 7 - 9 **₽97**



VV902 10 - 11 **97**



VV903 7 - 9 - 11 **97**



VV904 10 - 11 **96**



HIGH PRECISION WORKS W905 7 - 8 - 9 - 10 - 11

- 97



VV910 8 - 9 - 10 - 11 **92**

OUTSIDE WORKS





LITTLE GARDENER DPVV733EVL **102**





BALCONY AND TERRACE DPVV733VL 7

102



SPECIAL HARVEST DPVE715 7 - 9



DPVE716 7 - 9 - 10



DPVE450 8 - 10 **116**



DPVV831 7 - 8 - 9 - 10

ROSEBUSH



DPLAT50 7 - 9

SECOND WORK



POWER TOOL

DPCT402 10 **129**



PRECISION WORKS

DPVE702PN 9 - 10 **87**



GENERAL HANDLING

DPVV733JA

□101





DPW7330R 7 - 9 - 10 **101**





EXTRA GRIP

DPVE727 7 - 9 **90**



WET ENVIRONMENT

DPVE712GR 91



GREASE AND FUEL

DPPVC7327 10 **109**

PAINTING AND DECORATING



INTENSIVE WINTER WORKS VV913 8 - 9 - 10 - 11 **92**



OIL & GAS VV911 8 - 11 **94**



PAINTING



DPVE702P 7 - 9 **87**

FINISHING OFF

DPV1371 7 - 9 **123**

■ STANDARD



FORESTER

DPCBHV2 8 - 10 **127**



GARDEN MAINTENANCE

DPCT502 7 - 9 **129**



LIGHT HANDLING

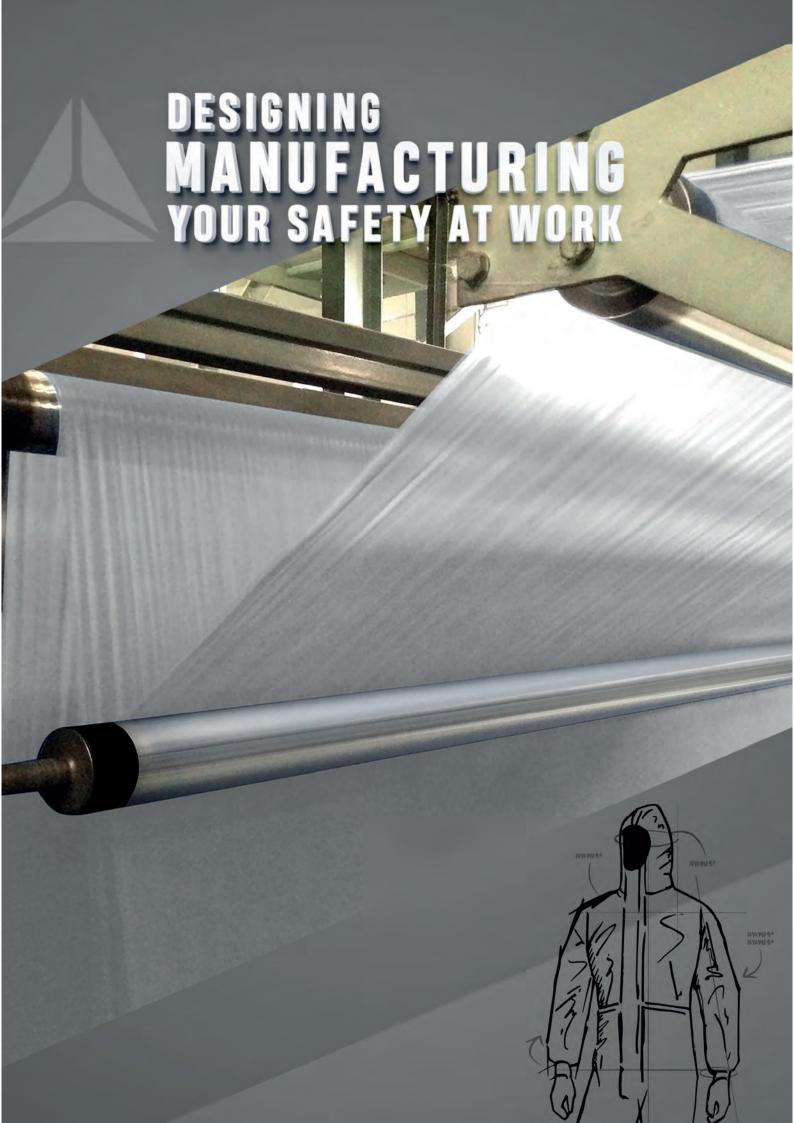
DPDC103 10 **130**





OUTSIDE WORKS







DISPOSABLE WEAR

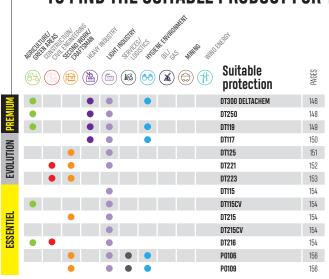
142 • HELP WITH CHOICE

- 146 Chemical protection overalls
- 156 Overalls Coats Aprons Headwear
- 158 Masks Sleeves Overshoes
- 399 TECHNICAL INFORMATION



HELP WITH CHOICE

TO FIND THE SUITABLE PRODUCT FOR YOUR JOB



MATERIALS

POLYETHYLENE (PE)

Is a flexible plastic fibre which provides good chemical resistances.

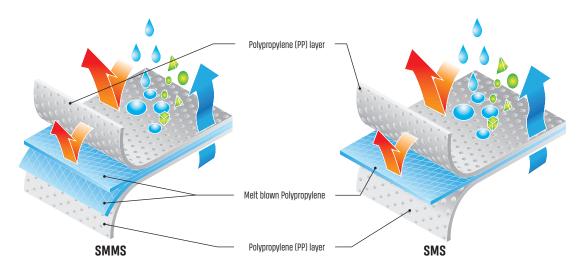
POLYPROPYLENE (PP)

Is a nonwoven breathable fibre which provides excellent comfort.

SMS/SMMS

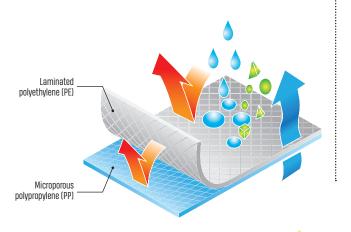
POLYPROPYLENE - MELT BLOWN POLYPROPYLENE - POLYPROPYLENE - DT2XX

The combination of the three polypropylene (PP) layers provides exceptional protection and provides a breathable non-woven fabric. The melt blown is incorporated with warm air to form a chemical barrier. The other two layers make the combination flexible and breathable.



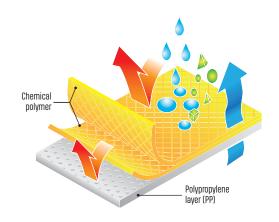
LAMINATED MICROPOROUS MATERIAL - DT1XX

The combination of a polypropylene (PP) layer and a Polyethylene layer (PE) ensures outstanding properties and excellent protection against most chemical products and particles. The non-woven fabric is very resistant and lint free.



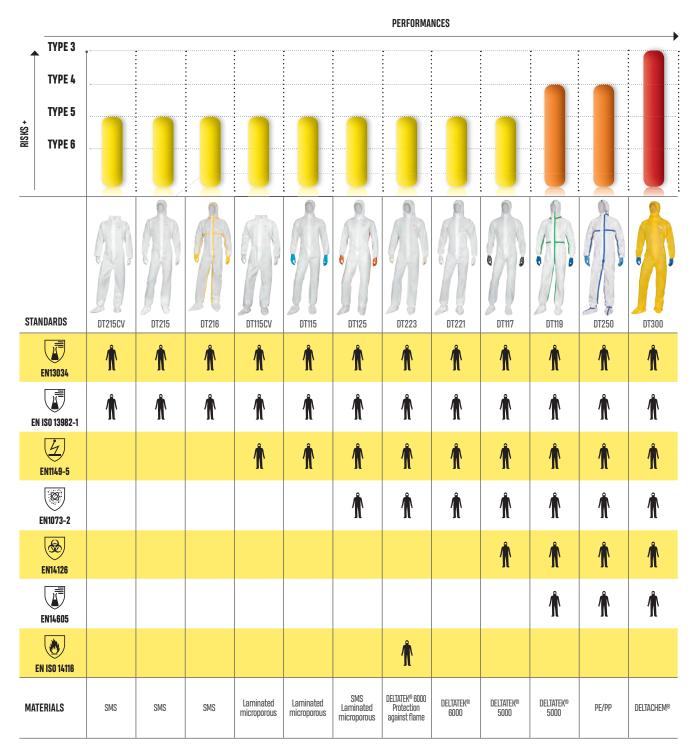
DELTACHEM POLYPROPYLENE + CHEMICAL BARRIER - DT3XX

The combination of several high performance polymer layers (chemical barrier) combines with several polypropylene (PP) layers, provides exceptional protection and ensures a non-woven breathable fabric. The polypropylene (PP) with the chemical barrier ensure flexible and comfort in extreme conditions



PERFORMANCES

What performance to choose according to your needs?



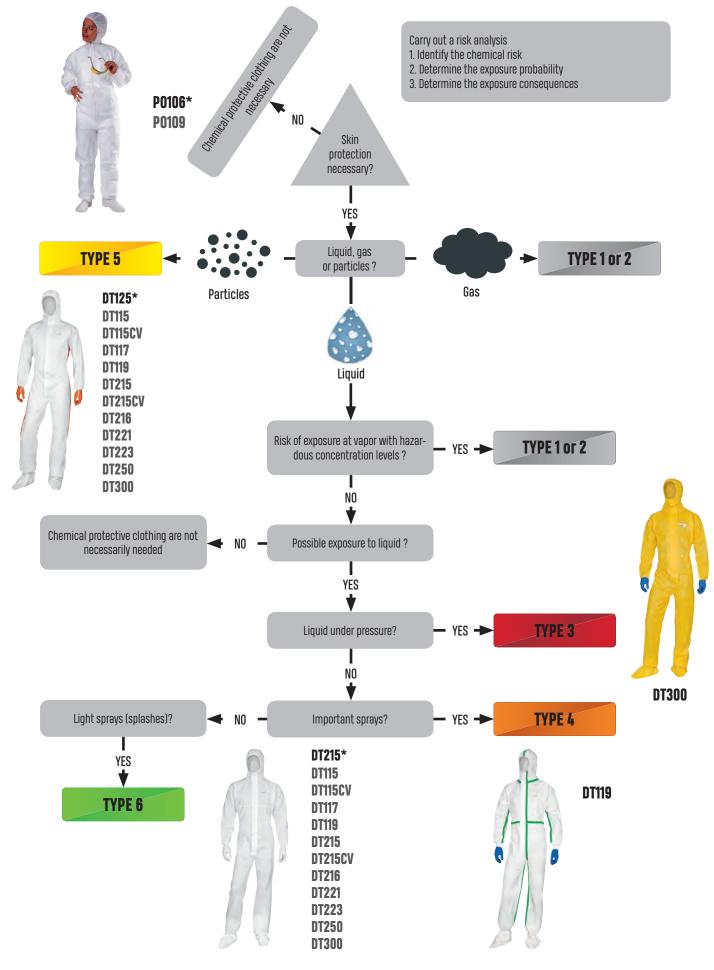
TYPE 1: Gas-tight
 TYPE 2: Not gas-tight
 TYPE 3: Liquid-tight

TYPE 4: Spray-tight
 TYPE 5: Dry particle-tight
 TYPE 6: Against sprays (limited)

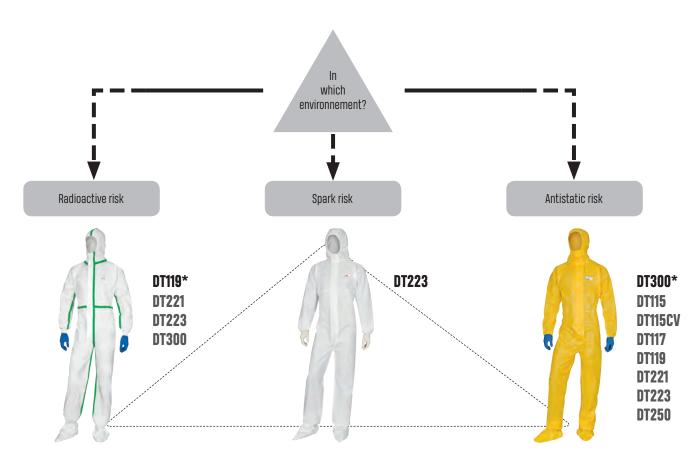
This list is not contractual. It is an indicative list and in no way incurs the liability of DELTA PLUS.



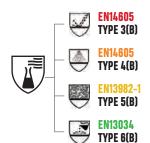
HELP WITH CHOICE



SELECT YOUR DISPOSABLE CHEMICAL OVERALL



STANDARDS



Protective clothing against liquid chemicals (sprays).

Protective clothing against liquid chemicals (mists).

Protective clothing for use against solid particles (dust - asbestos).

Protective clothing against liquid chemicals (splashes).

EN14126

Protective clothing against infective agents.

EN1073-2

Protective clothing against radioactive contamination.



EN1149-5

Protective clothing to dissipate static electricity.

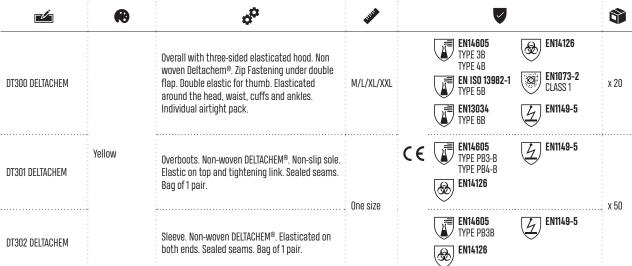


EN ISO 14116 Protective clothing against heat and flame.

	EXAMPLES OF APPLICATIONS	
Applications	Risks	Level of protection
Work Maintenance	Fouling	Category I/Non PPE
Industrial cleaning	Exposure to hazardous chemical substances and particles	TYPE 6 TYPE 5
Asbestos abatement / removal (dust > 1 micron)	Contact with particles or fibres	TYPE 5
Agriculture and horticulture (Handling of herbicides / pesticides / fungicides / fertilizers)	Contact with harmful elements	TYPE 4
Paint spraying (Solvents)	Contact with low-concentrate aerosols	TYPE 4
Paint spraying (Preparation / Mixing)	Contact with high concentrate aerosols	TYPE 3
Laboratories / Chemical Industries	Projection of chemical products	TYPE 3
Emergency / Rescue Personnel	Bacteriological contamination	TYPE 4-B TYPE 3-B



CHEMICAL PROTECTION OVERALLS











3-part hood Supports head movement for increased comfort



Waterproof seams →Decontamination work



Closure with double flap ➡Total water-proofing



Double thumb loops ⇒Good hold of the glove on the hand



Elasticated ankles →More comfort

















DT302 DELTACHEM



















CHEMICAL PROTECTION OVERALLS



DT250















Waterproof seams →Decontamination work

PE/PP material ➡No risk of lint





Closure with chin strap →Very good support and reinforced protection



Double thumb loops →Very good support



Adhesive tape to connect a glove ➡Total water-proofing



	•	o ^c	HILLIP		
DT119	White	Overall with elasticated hood. Non-woven microporous laminate Deltatek® 5000. Fastening with zip under adhesive flap (top and bottom opening). Elasticated waist and ankles. Knitted wrist. Antistatic. Individual airtight pack.	M/L/XL/XXL	EN14605 TYPE 4B EN ISO 13982-1 TYPE 5B EN1073-2 CLASS 1 EN13034 TYPE 6B EN1149-5	x 20

DT119













DELTATek⁵⁰⁰⁰





DELTATEK® 5000 →Polyethylene film ensures better a resistance to chemical attack and better mechanical resistance (abrasion - tearing)





Microporous laminate
→No risk of lint
→Very soft







3-part hood Supports head movement for increased comfort



Closure with self-adhesive flap





Ribbed cuffs →Good hold of the glove on the hand



Elasticated ankles



- DISPOSABLE WEAR CHEMICAL PROTECTION OVERALLS DELTATEK® 5000

	æ	o [©]	LILLIA	V	
DT117	White	Overall with elasticated hood. Non-woven microporous laminate Deltatek® 5000. Fastening with zip under adhesive flap (top and bottom opening). Elasticated waist and ankles. Knitted wrist. Antistatic. Individual airtight pack.	M/L/XL/XXL	EN13034 TYPE 6-B C EN ISO 13982-1 TYPE 5-B EN14126 EN1073-2 CLASS 1 EN1149-5 EN14126	x 20

DT117











DELTATek 5000





⇒Polyethylene film ensures better a resistance to chemical attack and better mechanical resistance (abrasion - tearing)





Microporous laminate

- →No risk of lint
- ⇒Very soft





3-part hood ⇒Supports head movement for increased comfort



Closure with self-adhesive

flap ➡Very good seal



Ribbed cuffs ⇒Good hold of the glove



Elasticated ankles

	æ	o [©]	FIFTI	₹	
DT125	White-orange	Non-woven overall with three-sided elasticated hood. Made in 2 materials: laminated microporous and SMS. Fastening with zip under flap. Elasticated round head, waist, cuffs and ankles. Individual pack.	M/L/XL/ XXL/3XL	EN ISO 13982-1 TYPE 5 CLASS 1 EN13034 TYPE 6 EN1149-5	x 50

DT125









DELTATek 5000







DELTATEK® 5000 ⇒Polyethylene film ensures better a resistance to chemical attack and better mechanical resistance (abrasion - tearing)



SMS and Microporous Laminate Association →Optimum comfort →Cooler due to the ventilated back





Antistatic

Microporous laminate **→**Less risk of lint





3-part hood ⇒Supports head movement for increased comfort



Crotch reinforcement →Increased resistance to tearing

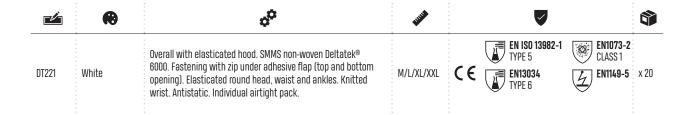


Thumb loop ⇒Good support





CHEMICAL PROTECTION OVERALLS DELTATEK® 6000



DT221











DELTATek 6000







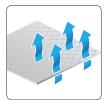


DELTATEK® 6000

⇒100% polypropylene SMMS*

*Spunbound Nonwoven (x1), Melt Blown (x2), Spunbound (x1)

The SMMS* process provides better product breathability



SMMS

⇒Breathable





3-part hood ⇒Supports head movement for increased comfort



→Very good seal



Ribbed cuffs ⇒Good hold of the glove on the hand



Elasticated ankles



	•	o ^o	J IJIJ	▽	
DT223	White	Overall with three-sided elasticated hood. Non-woven SMMS Deltatek® 6000. Flame retardant material. Fastening with zip under flap. Elasticated around the head, waist, cuffs and ankles. Individual airtight pack.	M/L/XL/XXL/3XL	EN ISO 13982-1 TYPE 5 EN ISO 13982-1 TYPE 6 EN ISO 14116 Index 1 EN ISO 14116 Index 1	x 20

DT223





















DELTATEK® 6000

⇒100% polypropylene SMMS*
*Spunbound Nonwoven (x1), Melt Blown (x2), Spunbound (x1)
The SMMS* process provides better product breathability



SMMS →Breathable





3-part hood →Supports head movement for increased comfort



Tested according to standard EN ISO14116

→ Protection against flames



CHEMICAL PROTECTION OVERALLS

	æ	o [©]	LILLIA	V	
DT115		Microporous lamined non-woven overall with elasticated hood. Fastening with zip under flap. Elasticated round head, waist, cuffs and ankles. Individual pack.	M/L/XL/ XXL	EN ISO 13982-1	
DT115CV		Microporous lamined non-woven overall with collar. Fastening with zip under flap. Elasticated round waist, cuffs and ankles. Individual pack.	M/L/XL/ XXL/3XL	EN13034 TYPE 6	
DT215	White	Non-woven overall with elasticated hood. 100% SMS. Fastening with zip under flap. Elasticated round head, waist, cuffs and ankles. Individual pack.	M/L/XL/ XXL	C E IN ISO 13982-1 EN 13034 TYPE 5 TYPE 6	x 50
DT215CV		100% SMS non-woven overall with collar. Fastening with zip under flap. Elasticated round waist, cuffs and ankles. Individual pack.	M/L/XL/		
DT216		Non-woven overall with elasticated hood. 100% SMS. Sealed seams. Fastening with zip under flap. Elasticated round head, waist, cuffs and ankles. Individual pack.	XXL/3XL	EN ISO 13982-1 EN13034 TYPE 5 TYPE 6	

DT115









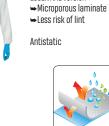














(5)

3-part hood ⇒Supports head movement for increased

DT115CV





DT215CV









Tested with the hood DT115CA Available on demand →For a complete protection of the body

DT215























3-part hood ⇒Supports head movement for increased comfort















Tested with the hood DT215CA Available on demand ➡For a complete protection of the body

DT216













⇒Breathable **⇒**Comfortable



3-part hood Supports head movement for increased











OVERALLS - COATS - APRONS - HEADWEAR

	•	o ^c	, just	V	
P0106		Overall with elasticated hood. Non-woven polypropylene 35 g/m². Zip fastening. Elasticated waist, ankles and cuffs. Suitable for food industry. Individual pack.	M/L/XL/XXL	c€ 兄∜	x 50
BLOUSPE		Coat for visitors. Polyethylene 18 µm. Fastening with 3 press studs. Shirt collar. Raglan sleeves. Dispenser box of 100 pieces.	One size		х5
TABPO02		Apron. Polyethylene 20 μ. Dimensions: 120 x 70 cm. Bag of 100 pieces.			x 10
TABP004		Apron. Polyethylene 40 μ. Dimensions: 120 x 70 cm. Bag of 50 pieces.			
P0109	Blue	Overall with elasticated hood. Non-woven polypropylene 35 g/m². Zip fastening. Elasticated cuffs. Individual pack.	L/XL/XXL	C€	x 50
BLOUSPO	White	Coat. Non-woven polypropylene 35 g/m². Fastening with 4 press studs. Shirt collar. Made-up sleeves. 2 patched low pockets. Suitable for food industry. Individual pack.	M/L/XL/XXL	Я"	X 0U

P0106











P0109











BLOUSPE





BLOUSPO



TABP002





TABP004





	•	o ^c	LIGHT	
P0111	White	Accordion pleating mobcap. Non-woven polypropylene 10 g/m². Elasticated border. Dispenser box of 100 pieces.		0 0 0 0 0
P0110	White	hite Round mobcap. Non-woven polypropylene 10 g/m². Elasticated border. 53 cm in diameter.		
	Blue	Dispenser box of 100 pieces.	One size	x 10
P0112		Mobcap with peak. Non-woven polypropylene 10 g/m². Box of 100 pieces.	One size	
P0115	White Chin/beard protector. Non-woven polypropylene 10 g/m². Elasticated for a good fit. Dispenser box of 100 pieces.			
TOQUE		Adjustable pleated hat. Extra-white crepe paper, 80 g/m². Height: 25 cm. Bag of 10 pieces.		x 25



P0111





P0110



P0112





P0115





TOQUE





MASKS - SLEEVES - OVERSHOES

	æ	o [©]	ijiji	V	
MASQU	White	Hygiene masks. Non-woven polypropylene 160 g/m². Elasticated straps and nose clip. Box of 50 masks.			v 90
MASQUV		Hygiene mask, medical type, 3 pleats. Non-woven polypropylene 58 g/m². Tie and nose clip. Box of 50 masks.			x 20
MASQUG	Green	Hygiene mask, medical type, 3 pleats. Non-woven polypropylene 62 g/m². Elastic tie and nose clip. Box of 50 masks.			x 40
MANCHBL	White	Sleeve. Polyethylene 21 µm. Suitable for food industry. Elasticated on both ends.	One size		x 20
MANCHBE	Blue	Dimensions: 40 x 20 cm. Bag of 100 pieces.		Xí	
DT302 DELTACHEM	Yellow	Sleeve. Non-woven DELTACHEM®. Elasticated on both ends. Sealed seams. Bag of 1 pair.		EN14605 TYPE PB3B EN14126 EN1149-5	x 50

MASQU











MASQUV











MASQUG











DT302 DELTACHEM

















MANCHBL





MANCHBE







	€	o [©]	JULI	V	
DT111	White	Overboots. Non-woven microporous laminate Deltatek® 5000. Elastic and tie on top. Bag of 10 pairs.			
SURCHPLUS	Blue-White	Overshoes. Non-woven polypropylene, 8,8 g/m². Polyethylene 120 µ. Waterproof plasticized sole. Elasticated ankle. Bag of 50 pairs.			х5
SURCHPE	Blue	Visitor overshoes. Polyethylene 25 µm. Elasticated ankle. Bag of 50 pairs.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		x 20
SURCHPO	White	Overshoes. Non-woven polypropylene 40 g/m². Elasticated ankle. Dimensions: 35 x 17 cm. Bag of 50 pairs.	One size		x 10
KITVI		Kit for visitor: 1 polyethylene overall Ref. BLOUSPE). 1 accordion pleating mobcap (Ref. P0111). 1 two-pleats paper mask (Ref. MASQU2). 1 polyethylene pair of overshoes (Ref. SURCHPE). Box of 100 kits.			х4
DT301 DELTACHEM	Yellow	Overboots. Non-woven DELTACHEM®. Non-slip sole. Elastic on top and tightening link. Sealed seams. Bag of 1 pair.		EN14805 TYPE PB3-B TYPE PB4-B EN14126 EN1149-5	x 50

























SURCHPLUS









SURCHPE









SURCHPO







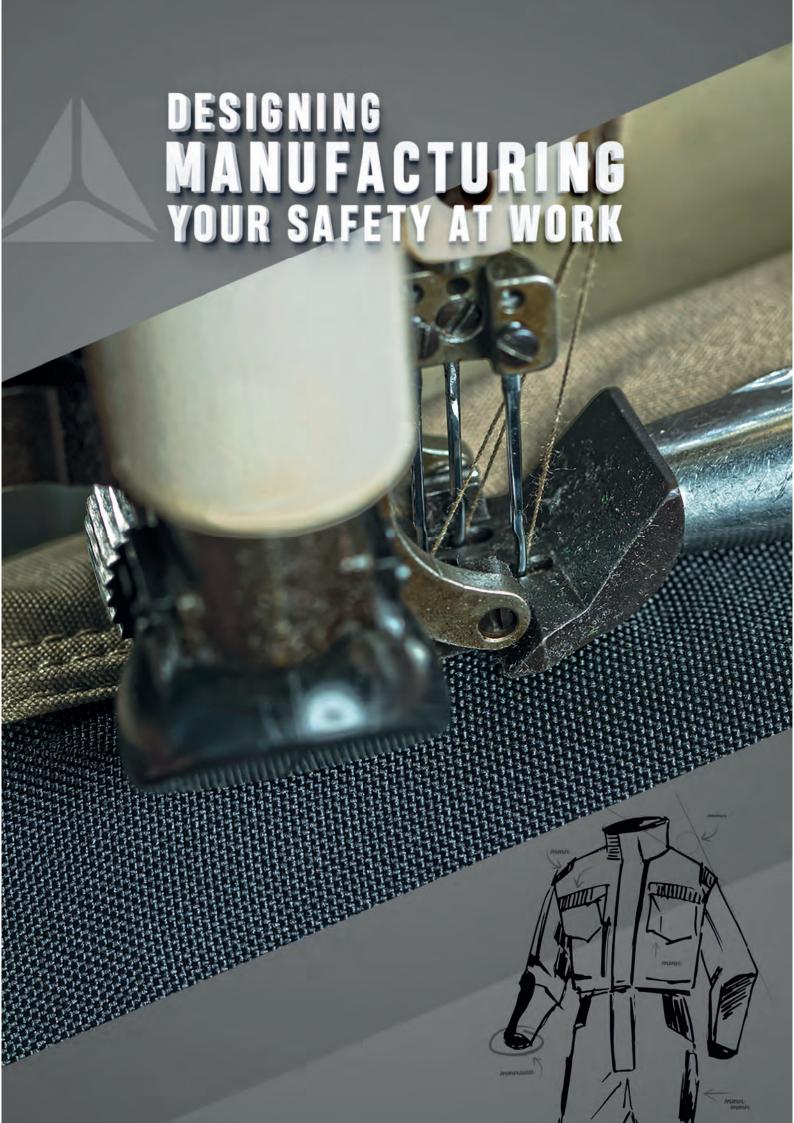


KITVI









WORK WEAR

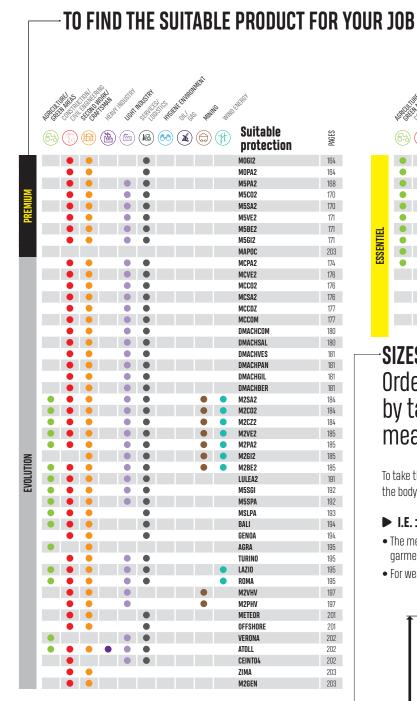
163 • HELP WITH CHOICE

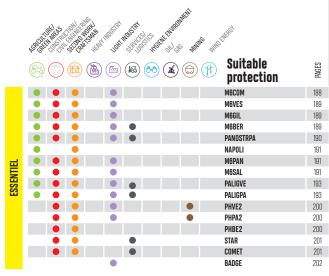
- 164 Mach Originals
- 166 Mach 5
- 172 Mach 2 Corporate
- 178 D-Mach
- 182 Mach 2
- 186 Panostyle
- 192 Mach Spring Palaos
- 194 Polos Tshirts Underwear
- 196 High Visibility Workwear
- 202 Caps Belts Kneepads
- 402 TECHNICAL INFORMATION

WORK WEAF



HELP WITH CHOICE



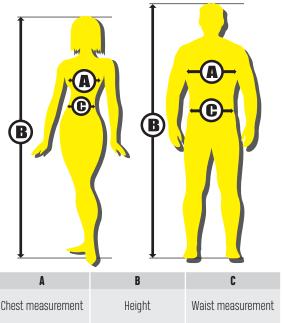


SIZES Order the right size by taking the correct measurements

To take the correct measurements, take the measurements directly on the body, without tightenning.

▶ I.E.:

- The measurements outlined in the tables are for the **body**, not the garment.
- For wearing a garment over another, the width required is provided.



SIZE EQUIVALENCE TABLE

MALE	XS	S	М	L	XL	XXL	3XL
FEMALE	S	M	L	XL	XXL	-	-

MALE	В	XS 156/164	S 156/164	M 164/172	L 172/180	XL 180/188	XXL 188/196	3XL 196/204
	EU	42/44	44/46	48/50	52/54	56/58	60/62	64/66
JACKET / BOMBER / Bodywarmer / Overall	IT	36/38	38/40	42/44	46/48	50/52	54/56	58/60
UVERALL	DE	46/48	48/50	52/54	56/58	60/62	64/66	68/70
Chest measurement	cm	78/86	86/94	94/102	102/110	110/118	118/129	129/141
(A)	inch	321/2/34	34/37	37/40	40/43	43/461/2	461/2/501/2	501/2 /551/2
TROUSERS /	EU	32/34	34/36	38/40	42/44	46/48	50/52	54/56
DUNGAREES	IT/DE	36/38	38/40	42/44	46/48	50/52	54/56	58/60
Waist measurement	cm	58/66	66/74	74/82	82/90	90/98	98/106	106/117
(C)	inch	23/26	26/29	29/32	32/35 ^{1/2}	35 ^{1/2} /38 ^{1/2}	381/2/411/2	411/2/46
TEE-SHIRT (A)	cm	76/79	80/88	89/97	98/106	107/115	116/124	125/133



MACH ORIGINALS

	æ	o [©]	#	AUGU	V	\$
MOGI2	Grey	Vest. Bias finishing. 10 pockets including 2 inner.	Canvas 97% cotton 3% elastane 290 g/m². Yokes : Cordura®	c/M/I /VI /VVI /9VI	<i>((</i>	v 10
MOPA2	Navy blue	Trousers. Inside adjustable waist with elastic and buttons. 12 pockets.	Cordura®.	S/M/L/XL/XXL/3XL		X IU

MOGI2













Fixed badge holder included



Covered zips







Mesh insert on the back for ventilation

→Increased breathability for better evacuation of perspiration



Large pocket on the back

The necessary tools always at hand

MOPA2













Crotch reinforcement ⇒Increased lifespan



Decorative retro-reflective piping on the front and back MOGI2 - MOPA2



Kneepad pockets

→Allows you to insert M2GEN kneepads to work more comfortably on your knees





Triple seams





Fleece lined kidney protector

- →Perfect protection of the lower back against the cold
- ➡Increased comfort





Easy adjustment of leg length by pressure (3 lengths possible)

















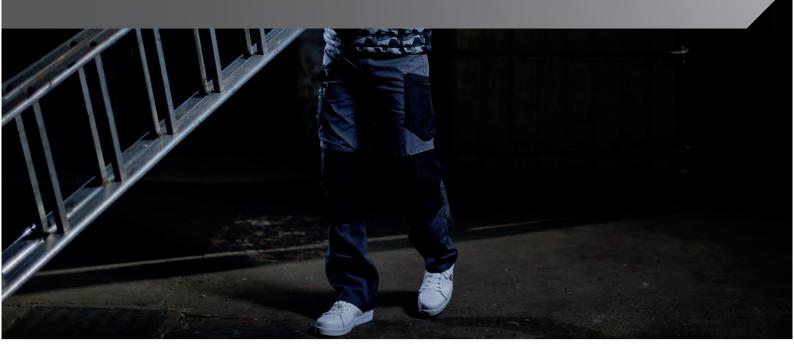








WORK WEAR MACH 5



	•	o [©]	#	, iju t	V	
M5PA2	Beige-Black Grey-Black	Trousers. Elasticated waist on both sides. Preformed knees. 8 pockets including 1 ruler.	Canvas 60% cotton 40% polyester 270 g/m². Yokes: Cordura® and Oxford polyester.	S/M/L/XL/XXL/3XL	C€	x 10

M5PA2



















MAPOC removable pockets sold separately
The necessary tools always at hand



The M5V2 range is highly resistant thanks to its triple seams and Cordura® reinforcements.



Triple seams ➡Increased lifespan



Covered zips



Tool holder pocket →The necessary tools always at hand



Retro-reflective piping (front and back)



Fixed badge holder included



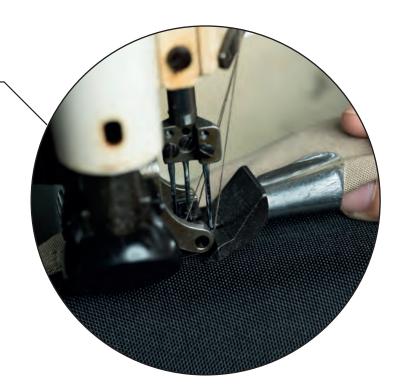
→Increased lifespan



Cordura® kneepad pockets →Allows you to insert M2GEN kneepads to work more comfortably on your knees



Using Cordura® and triple seams to improve product life.





We have developed the M5 range to meet the needs of demanding customers and to enable intensive use of the product. That's why we chose a heavy cotton majority fabric to lend comfort and durability. The Cordura®, highly resistant to abrasion, is positioned on areas of high wear such as knees and forearms for maximum durability.

Laurent Kostrzewa, Body Protection Product Expert

└- WORK WEAR MACH 5

	æ	o [©]	#	JULI	V	
M5C02	Beige-Black	Overalls. Fastening zip under storm flap with Velcro strap (top and bottom opening). Elasticated waist. Underarm ventilation eyelets. Preformed elbows. 11 pockets including 1 ruler.	Canvas 60% cotton 40% polyester 270 g/m². Yokes:	S/M/L/XL/ XXL/3XL	C€	v 10
M5SA2	Grey-Black	Dungarees. Fastening zip under flap (top and bottom opening). Elasticated waist on both sides. Adjustable elasticated braces. Preformed knees. 10 pockets including 1 ruler.	Cordura® and Oxford polyester.			ΧIU

M5C02















Triple seams ⇒Increased lifespan M5C02 - M5PA2 - M5BE2



Retro-reflective piping (front and back) M5VE2 - M5PA2 - M5CO2 -M5SA2 - M5GI2



Fixed badge holder included M5VE2 - M5PA2 - M5CO2 -M5SA2 - M5GI2 - M5BE2



Covered zips M5VE2 - M5PA2 - M5CO2 -M5SA2 - M5GI2 - M5BE2



Tool holder pocket →The necessary tools always at hand M5PA2 - M5CO2 - M5SA2 -



Cordura® kneepad pockets ➡Allows you to insert M2GEN kneepads to work more comfortably on your knees M5PA2 - M5CO2 - M5SA2



Reinforcement ⇒Increased lifespan M5PA2 - M5CO2 - M5SA2

M5SA2



















	•	o ^c	#	Triple	V	
M5VE2	Beige-Black Grey-Black	Jacket. Fastening with zip under velcro storm flap. Elasticated waist on both sides. Underarm ventilation eyelets. 9 pockets including 2 inner.	Canvas 60% cotton 40% polyester 270 g/m². Yokes: Cordura® and Oxford polyester.			
M5BE2	Beige Black	Bermuda. Elasticated waist on both sides. 8 pockets including 1 ruler.	Canvas 60% cotton 40% polyester 270 g/m².	S/M/L/XL/XXL/3XL	C€	x 10
M5GI2	Beige-Black Grey-Black	Vest. Zip fastening under bias. Elasticated waist on both sides. 9 pockets including 2 inner.	Canvas 60% cotton 40% polyester 270 g/m². Yokes: Oxford polyester			

M5VE2















- Cordura® reinforcement

 Increased lifespan

 Very good resistance to abrasion







M5BE2

















M5GI2















WORK WEAR MACH 2 CORPORATE



MACH 2C















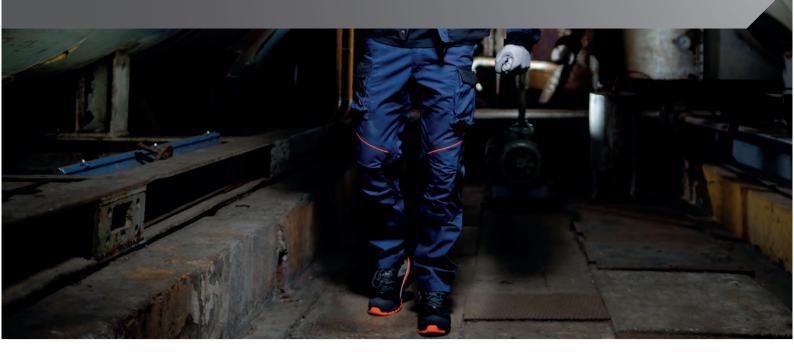






WORK WEAR

MACH 2 CORPORATE



	•	o ^o	#	LIGHT	
MCPA2	Grey-Black Navy blue-Black Light grey-DarK grey	Trousers. Elasticated waist on both sides. Preformed knees. Reinforced crotch. 13 pockets including 1 ruler.	Canvas 65% polyester 35% cotton Ripstop 260 g/m².	S/M/L/XL/XXL/3XL	C € x10

MCPA2



















MAPOC removable pockets sold









The new Mach Corporate range meets the expectations of today's demanding professionals thanks to its many pockets and the Ripstop fabric used.



Triple seams ⇒Increased lifespan



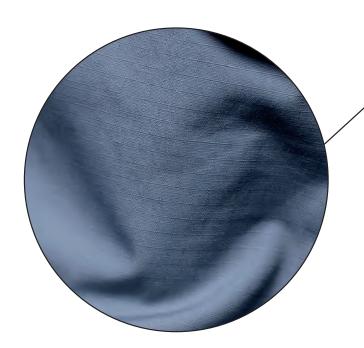
Kneepad pockets ⇒Allows you to insert M2GEN kneepads to work more comfortably on your knees



Retro-reflective piping (front and back)



Fixed badge holder included





The use of the 260g/m² Ripstop polyester/ cotton fabric guarantees the user a very high level of tear resistance while remaining comfortable and relatively

A modern cut A current design



We took inspiration from current trends to develop the new Mach Corporate range. Ripstop fabric improves tear strength. Heavier, it significantly increases the life of the product. The many functional pockets are a real advantage to always have the necessary tools at hand. The 3 colours available and the decline of design on winter products make the Mach Corporate a usable range throughout the year.

Laurent Kostrzewa, Body Protection Product Expert

MACH 2 CORPORATE

	•	o ^o	#	LIFT	V	
MCVE2	Grey-Black Navy blue-Black Light grey-DarK grey	Jacket. Fastening with zip under velcro storm flap. Elasticated cuffs adjustable with Velcro. 9 pockets including 1 zipped.	Canvas 65% polyester 35% cotton Ripstop 260 g/m².			
MCCO2	Grey-Black	Overalls. Elasticated waist at the back. 11 pockets including 1 ruler.	Canvas 65% polyester	S/M/L/XL/XXL/3XL	C€	x 10
MCSA2	Grey-Black Navy blue-Black Light grey-DarK grey	Dungarees. Adjustable elasticated braces. 9 pockets including 1 ruler.	35% cotton Ripstop 260 g/m².			

MCVE2















Triple seams ⇒Increased lifespan



Fixed badge holder included





MCC02













Retro-reflective piping



Kneepad pockets →Allows you to insert M2GEN kneepads to work more comfortably on your knees



MCSA2













	€	o ^c	#	tites	V	\$
MCCDZ	Navy blue-Black Light grey-DarK grey Beige-Grey	Overalls with 2 zips. Adjustable elasticated waist at the back, through velcro band at the front Adjustable bottom of legs with velcro band. 7 pockets. 2 Hand slits.	Twill 65% polyester 35%	S/M/L/XL/XXL/3XL	<i></i>	v.10
мссом	Beige-Grey	Overalls. Elasticated waist at the back. 8 pockets including 1 ruler. 2 Hand slits.	Twill 65% polyester 35% cotton 245 g/m².	J/W/L/AL/XXL/JXL		XIU

MCCDZ





























Hand pocket MCCOM

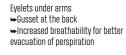


Buttock reinforcement ⇒Increased lifespan MCCOM



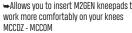
Zip on the bias for ergonomics





→Allows you to insert M2GEN kneepads to work more comfortably on your knees MCCDZ - MCCOM





WORK WEAR D-MACH

D-MACH

























C € S->3XL











D-MACH

	æ	o ^o	#	ijiji	V	
DMACHCOM	Black-Red	Overalls. Elasticated waist. Fastening with zip under bias (top and bottom opening). 9 pockets including 1 ruler.	Twill 65% polyester 35% cotton 245 g/m².	S/M/L/XL/XXL/3XL		v.10
DMACHSAL	Grey-Yellow Grey-Orange	Dungarees. Adjustable elasticated braces. 8 pockets including 1 ruler.			~~	X IU

DMACHCOM













Smocked back ⇒Easy to put on

⇒Freedom of movement



Tool holder pocket →The necessary tools always at hand DMACHCOM - DMACHPAN -DMACHSAL



DMACHSAL











Button closure on the waist



Jean style pockets DMPAN - DMSAL - DMCOM



Buttock reinforcement ⇒Increased lifespan





Kneepad pockets →Allows you to insert M2GEN kneepads to work more comfortably on your knees DMCOM - DMPAN - DMSAL



Lower trousers reinforced with anti-dirt coating DMACHCOM - DMACHPAN - DMACHSAL





	•	o [©]	#	LIGHT	V	
DMACHVES	Black-Red Grey-Yellow Grey-Orange	Jacket. Cuffs with press studs fastening. 4 pockets.			1 1 2 3 3 3 5 0 0 0	
DMACHGIL	Grey-Yellow	Vest. Zip fastening under bias. 5 pockets.	Twill 65%			
DMACHPAN	Black-Red Grey-Yellow Grey-Orange	Trousers. Elasticated waist on both sides. 6 pockets including 1 ruler.	polyester 35% cotton 245 g/m².	S/M/L/XL/XXL/3XL	CE	x 10
DMACHBER	Black-Red Grey-Yellow	Bermuda. Elasticated waist on both sides. 6 pockets.	## 1		0	•

DMACHVES









Badge holder location





Inner pocket →The necessary tools always at hand



Hand pockets



Reinforced anti-soil cuffs







DMACHGIL













Hand pockets



DMACHPAN













DMACHBER













WORK WEAR MACH 2













M2GI2 C € S->3XL

GENOA S->3XL

















M2PW2 C € S->3XL



WORK WEAR

MACH 2

	æ	o ^o	#	LIGHT	V	
M2SA2	Grey-Orange Navy blue-Royal blue Black-Grey	Dungarees. Adjustable elasticated braces. 8 pockets including 1 ruler.	Twill 65% polyester 35% cotton 245 g/m².			1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
M2C02		Overalls. Zip fastening under bias. Elasticated waist. Elasticated cuffs. 10 pockets including 1 on the sleeve and 1 ruler.		S/M/L/XL/XXL/3XL	C€	x 10
M2CZ2	Grey-Orange Navy blue-Royal blue Green-Black	Overalls with 2 zips. Elasticated waist. 10 pockets including 1 ruler.				

M2SA2

















Decorative retro-reflective piping on M2C02 - M2CZ2 - M2VE2 - M2PA2



Fixed badge holder included M2CO2 - M2CZ2 - M2VE2 - M2PA2 -M2SA2 - M2GI2 - M2BE2



Triple seams ⇒Increased lifespan M2CO2 - M2CZ2 - M2PA2 - M2SA2 - M2BE2



Waist adjustable with buttons ⇒Elasticated back waist ➡Freedom of movement and optimised



Kneepad pockets →Allows you to insert M2GEN kneepads to work more comfortably on your knees M2C02 - M2PA2 - M2SA2





M2C02















Covered zips M2CO2 - M2VE2







M2CZ2

















Adjustable bottom by Velcro strap









Ď	•	o [©]	#	j juj s	V	
M2VE2	Grey-Orange Navy blue-Royal blue Black-Grey	Jacket. Elasticated cuffs adjustable with Velcro. 5 pockets including 1 zipped and 1 inside.		C/M/I /VI /VVI /2VI		
M2GI2	Grey-Orange Navy blue-Royal blue Green-Black	Multipocket vest. Bias finishing. 10 pockets.	S. Twill 65% polyester	S/M/L/XL/XXL/3XL		
M2PA2	Grey-Orange Navy blue-Royal blue Black-Grey Green-Black	Trousers. Elasticated waist on both sides. 7 pockets including 1 ruler.	35% cotton 245 g/m².	XS/S/M/L/XL/ XXL/3XL	C€	x 10
M2BE2	Grey-Orange Navy blue-Royal blue Green-Black	Bermuda. Elasticated waist on both sides. 7 pockets including 1 ruler.		S/M/L/XL/XXL/3XL	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

M2VE2

























M2GI2

















Large pocket on the back →The necessary tools always at hand









M2PA2

















M2BE2



































MAPOC removable pockets sold separately →The necessary tools always at hand







WORK WEAR PANOSTYLE





PANOSTYLE

	•	o [©]	#	High	V	
M6COM	Grey-Green Navy blue-Orange Grey-Orange Brown-Green	Overalls. Front zip fastening with bias finishing. Elasticated waist. Elasticated cuffs. 7 pockets.	Twill SEM, polycotor			
M6SAL	Grey-Orange Navy blue-Orange Grey-Green Brown-Green White-Grey	Dungarees. Elasticated waist on both sides. Adjustable elasticated braces. 6 pockets.	Twill 65% polyester 35% cotton 235 g/m².	XS/S/M/L/XL/XXL/3XL	CE	x10

M6COM













Badge holder location sold separately



Contrasting colours



Internal kneepad pockets →Allows you to insert M2GEN kneepads to work more comfortably on your knees

M6SAL 6-b **B B**











Button closure on the waist







	•	o ^{to}	#	JULI	abla	
M6VES	Grey-Green Navy blue-Orange	Jacket. Front zip fastening with bias finishing. Elasticated cuffs. 4 pockets.			0 0 0 0 0 0	
M6GIL	Grey-Orange Brown-Green	Multipocket vest. Front zip fastening with bias finishing. Bias finishing. 6 pockets.			XS/S/M/L/XL/	o o o o
M6PAN	Grey-Orange Navy blue-Orange Grey-Green Brown-Green White-Grey	Trousers. Elasticated waist on both sides. 5 pockets including 1 ruler.		er XXL/3XL	C€	x 10
M6BER	Grey-Green Navy blue-Orange	Bermuda. Elasticated waist on both sides. 5 pockets.		S/M/L/XL/XXL/3XL	00 0 0 0 0 0 0	

M6VES









M6GIL



















M6PAN















M6BER















PANOSTYLE

The new PanostrPa trousers completes the PANOSTYLE offer by providing a more modern fit and incomparable comfort thanks to the cleverly positioned stretch fabric.

	•	o [©]	#	LILLIA		
PANOSTRPA	Navy blue-Orange Grey-Black	Trousers. Elasticated waist at the back. 5 pockets including 1 ruler.	Twill 63% polyester 34% cotton 3% elastane 240 g/m².	XS/S/M/L/XL/ XXL/3XL	C€	x 10

PANOSTRPA















The use of 240 g/m² polyester/cotton/elastane stretch fabric quarantees the best price/value ratio for this range without compromising the quality and durability of the product.



We have integrated a stretch line in the Panostyle range to meet the expectations of our customer users. They can continue to dress in Panostyle, or rediscover this range while having pants with a current cut that offers greater freedom of movement whatever the job they do. Laurent Kostrzewa, Body Protection Product





	•	o [©]	#	LIFE	V	
LULEA2	White-Grey	Jacket. Fastening with zip under storm flap. Bottom of sleeves with bias finishing. Adjustable bottom of garment with elastic drawstring. 5 pockets.	Softshell 96% polyester 4% elastane fabric.	S/M/L/XL/XXL/3XL	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
NAPOLI	White	Tee-shirt with short sleeves. Round collar.	Jersey stitch 100% cotton 140 g/m².			x 10
M6PAN	3 0 0	Trousers. Elasticated waist on both sides. 5 pockets including 1 ruler.				
M6SAL	White-Grey	Dungarees. Elasticated waist on both sides. Adjustable elasticated braces. 6 pockets.	Twill 65% polyester 35% cotton 235 g/m².	XS/S/M/L/XL/XXL/3XL	CE	

LULEA2

Softshell
Lightness and protection from cold, wind and fine rain











NAPOLI







M6PAN















M6SAL











MACH SPRING - PALAOS

	•	o [©]	#	, ijus		
M5SGI	Doigo	Stonewashed multipocket vest. Zip fastening under bias. 12 pockets.	Twill 65% polvester	S/M/L/XL/XXL/3XL	•	v 10
M5SPA	Beige	3 in 1 stonewashed trousers. Elasticated waist on both sides. Preformed knees. 8 pockets including 1 ruler.	35% cotton 245 g/m².		6	XIU

M5SGI













Dorsal ventilation flap



Fixed badge holder included



M5SPA

















Triple seams →Increased lifespan Crotch reinforcement ⇒Increased lifespan



Kneepad pockets →Allows you to insert M2GEN kneepads to work more comfortably on your knees





Pants convertible via zip





Tool holder pocket →The necessary tools always at hand



MAPOC removable pockets sold separately →The necessary tools always at hand

	æ	o ^c	#	HILLIA	V	\$
MSLPA	,	Trousers. Elasticated waist on both sides. Preformed knees. 6 pockets including 1 ruler.	Canvas 100% cotton 195 g/m². Cordura® reinforcement 100% polyamide.			
PALIGVE		Jacket. Zip fastening under bias. Elasticated cuffs. 3 pockets including 1 inner.	Twill 100% cotton 200 g/m².	S/M/L/XL/XXL/3XL	CE	x 10
PALIGPA	Navy blue	Trousers. Elasticated waist on both sides. 5 pockets including 1 ruler.	Twill 100% cotton 200 g/m².			

MSLPA















Kneepad pockets

→Allows you to insert M2GEN kneepads to work more comfortably on your knees



Crotch reinforcement →Increased lifespan

PALIGVE















PALIGPA



















POLOS - TSHIRTS - UNDERWEAR

	•	o [©]	#	LIGHT	V	
BALI	Grey-Navy blue Black-Yellow Orange-Navy Blue Red-Grey Green-Grey	Two-coloured tee-shirt with short sleeves. Round collar.	ith short 100% polyester 160 g/m². Dry fit M/L/XL/XXL/3XL treatment.			
GENOA	Grey-Orange Royal blue-Navy blue Black-Grey Green-Black	Two-coloured tee-shirt with short sleeves (To match the MACH range). Round collar.	Jersey stitch 100% cotton 180 g/m².	S/M/L/XL/XXL/3XL		x 10
NAPOLI	Blue Grey White	Tee-shirt with short sleeves. Round collar.	Jersey stitch 100% cotton 140 g/m².		*** ** ** ** ** ** ** ** ** ** ** ** **	

BALI











Synthetic fabric ⇒Quick drying to keep the skin dry **→**Lighweight





GENOA









NAPOLI







	•	o [©]	#	LIFT	V	
AGRA	Blue Black Red	Polo with short sleeves. Collar with button fastening.	Piqué stitch 100% cotton 200 g/m².		0	
TURINO	Black Grey-Black	Polo with long sleeves (To match MACH range). Knitted cuffs.	Piqué stitch 100% cotton 210 g/m².	S/M/L/XL/XXL/3XL	o o o o o o o o o o o o o o o o o o o	x 10
LAZIO	Black	Tee-shirt with short sleeves. Round collar.	Jorgan etiteb 1000/ eetten 100 g/m²	60 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	o	
ROMA	Grey	iee-stiirt with short sleeves. Round collar.	Jersey stitch 100% cotton 180 g/m².		o •	





LAZIO

















ROMA





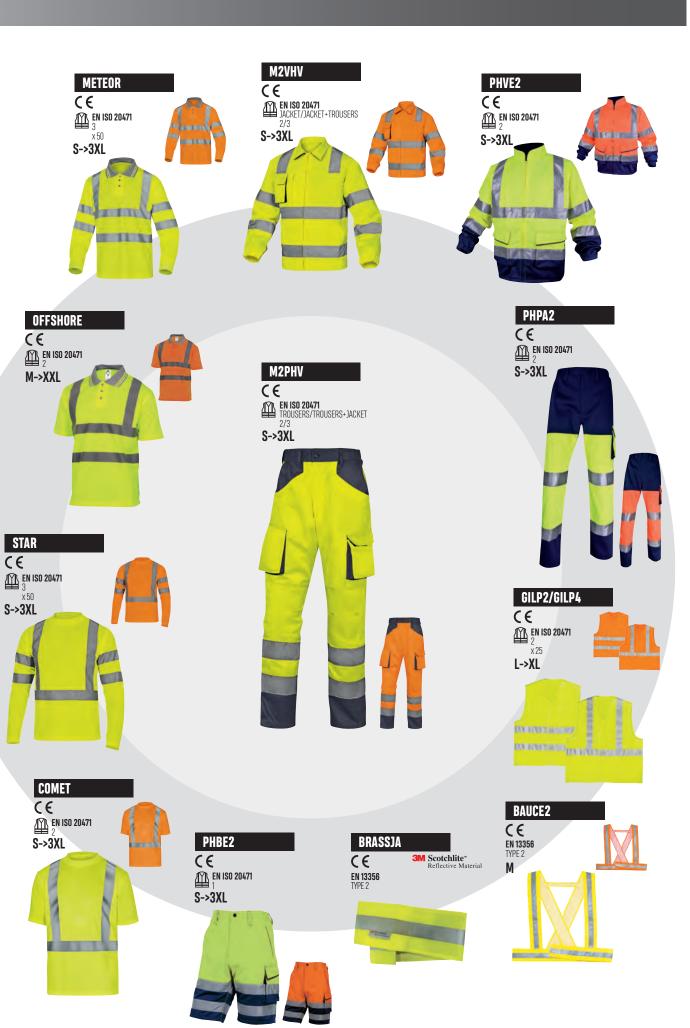












- WORK WEAR

HIGH VISIBILITY WORKWEAR



	æ	o ^o	#	ALILLE	V	
M2VHV	Fluorescent yellow- Grey	Jacket. Elasticated cuffs adjustable with Velcro. 4 pockets including 1 zipped and 1 inside. High visibility: Class 2 - Silver colour - Parallel assembly.	Twill 54% cotton 46% polyester 260 g/m².	S/M/L/XL/	EN ISO 20471 JACKET/ JACKET+TROUSERS 2/3	
M2PHV	Fluorescent orange- Grey	Trousers. Elasticated waist on both sides. High visibility. Class 2 - Silver colour. 7 pockets including 1 ruler pocket.	polyester 260 g/m². Retro-reflective sewn bands.	XXL/3XL	EN ISO 20471 TROUSERS/ JACKET+TROUSERS 2/3	x 10

M2VHV















M2PHV















 $> 0,10 \text{ m}^2$

 $> 0.13 \text{ m}^2$

 $> 0.20m^2$

From T-shirts to the parka to pants and work jackets, our high-visibility clothing line lets you be seen for your safety in any season wherever you work.

Class

2



Fixed badge holder included



Covered zips



Triple seams ⇒Increased lifespan



MAPOC removable pockets sold separately →The necessary tools

always at hand



Kneepad pockets →Allows you to insert M2GEN kneepads to work more comfortably on your knees

A high visibility garment that will allow you to be visible to other road users
and machine operators day and night.

 $> 0.14 \text{ m}^2$

 $> 0,50 \text{ m}^2$

 $> 0.80 \text{ m}^2$

To be visible by day, they must use yellow, orange or red fabrics that meet the EN ISO 20471 standard.

To be visible at night, they must use retro-reflective tapes that also meet the EN ISO 20471 standard.

The surface and positioning of the retro-reflective fabrics and bands will certify the garment in class 1, 2 or 3.

These classes guarantee a visibility to a greater or lesser distance that you define according to your place of work: construction site, road, highway... We mainly use retro-reflective tapes sewn to guarantee the best value for money.





Our entire range meets the requirements of standard EN ISO 20471 A1 2016. Most models are available in orange and yellow, we developed them with the constant concern of the best value for money without compromising on the quality of the materials used

Laurent Kostrzewa, Body Protection Product Expert

HIGH VISIBILITY WORKWEAR

	æ	o [©]	#	LILLIA	V	
PHVE2	Fluorescent yellow-Navy blue Fluorescent orange-Navy blue	Jacket. Elasticated cuffs. High visibility: Class 2 - Silver colour - Shoulder-belt and parallel assembly. 2 pockets.		S/M/L/XL/XXL/3XL	∫1∳71 EN ISO 20471	
PHPA2		Trousers. Elasticated waist on both sides. High visibility: Class 2 - Silver colour. 5 pockets including 1 ruler pocket.	Twill 80% polyester 20% cotton 230 g/m². Retro-reflective sewn bands.		€ CLASS 2	x 10
PHBE2		Bermuda. Elasticated waist on both sides. High visibility: Class 1 - Silver colour. 5 pockets.			EN ISO 20471 Class 1	

PHVE2















PHPA2



knees



Internal kneepad pockets →Allows you to insert M2GEN kneepads to work more comfortably on your

























	•	o [©]	#	JULIA	$\overline{\mathbf{v}}$	
METEOR		Polo with long sleeves. Contrast collar with button placket. High visibility. Class 3 - Silver colour - Shoulder-belt and parallel assembly.	Piqué stitch 100% polyester 235 g/m². Retro-reflective sewn S/M/L/XL/XXL/33		EN ISO 20471 Class 3	
STAR	Fluorescent yellow	Long Sleeve T-Shirt. Round collar. High visibility: Class 3 - Silver colour - Shoulder-belt assembly.	bands.		EN ISO 20471 CLASS 3 x 50	v 10
OFFSHORE	Fluorescent orange	OTANGE with button placket. High vicibility Class 2 -	M/L/XL/XXL	EN ISO 20471	x 10	
COMET	COMET	Short sleeve tee-shirt. Round collar. High visibility: Class 2 - Silver colour - Shoulder-belt assembly.	RELIO-TETRECTIVE SEWIT DATIUS.	S/M/L/XL/XXL/3XL	EM CLASS 2	0 0 0 0 0

METEOR









STAR













OFFSHORE













COMET















CAPS - BELTS - KNEEPADS

	€	o ^o	#	titus	V	
VERONA	Navy blue-Royal blue Grey-Orange Black-Grey Red-Grey	Cap (To match the MACH range).	Twill 65% polyester 35% cotton 245 g/m².	One size	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	x 100
BADGE	Black	Removable badge holder suitable for all products with badge holder text. Outside dimensions: width 10,5 cm x height 9,5 cm.	Fabric. Plastic.			x 750
ATOLL	Grey	Belt. Length: 120 cm.	100% polyester.	One size	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	x 100
CEINTO4	Black	Adjustable lumbar belt with velcro band. Double elasticated band for adjustment. Adjustable tightening shoulder-straps. Reinforced at the back with a system of «4 stiffeners».	Canvas polyester elastane. Stiffeners in polypropylene.	M/L/XL		x 48

VERONA













BADGE





ATOLL















CEINT04









	•	o [©]	#	, ijiji b	\checkmark	\$
MAPOC		Set of 2 removable pockets. 6 pockets and 1 hammer holder.	100% Oxford polyester canvas.			x 40
ZIMA	Black	Pair of gel kneepad with outside anti slip shell. Elastic velcro band to maintain the knee. Adjustable strips in elastic velcro.	PVC-coated 100% polyester. 100% polyester lining. PVC shelve.	One size	EN14404 TYPE 1 LEVEL 1	
M2GEN		Pair of kneepads 20 x 15 cm for trousers, dungarees and overalls of the MACH and PANOSTYLE ranges (not M2CZ2).	Polyethylene foam.		EN14404 TYPE 2 LEVEL 1	x 10

MAPOC





ZIMA





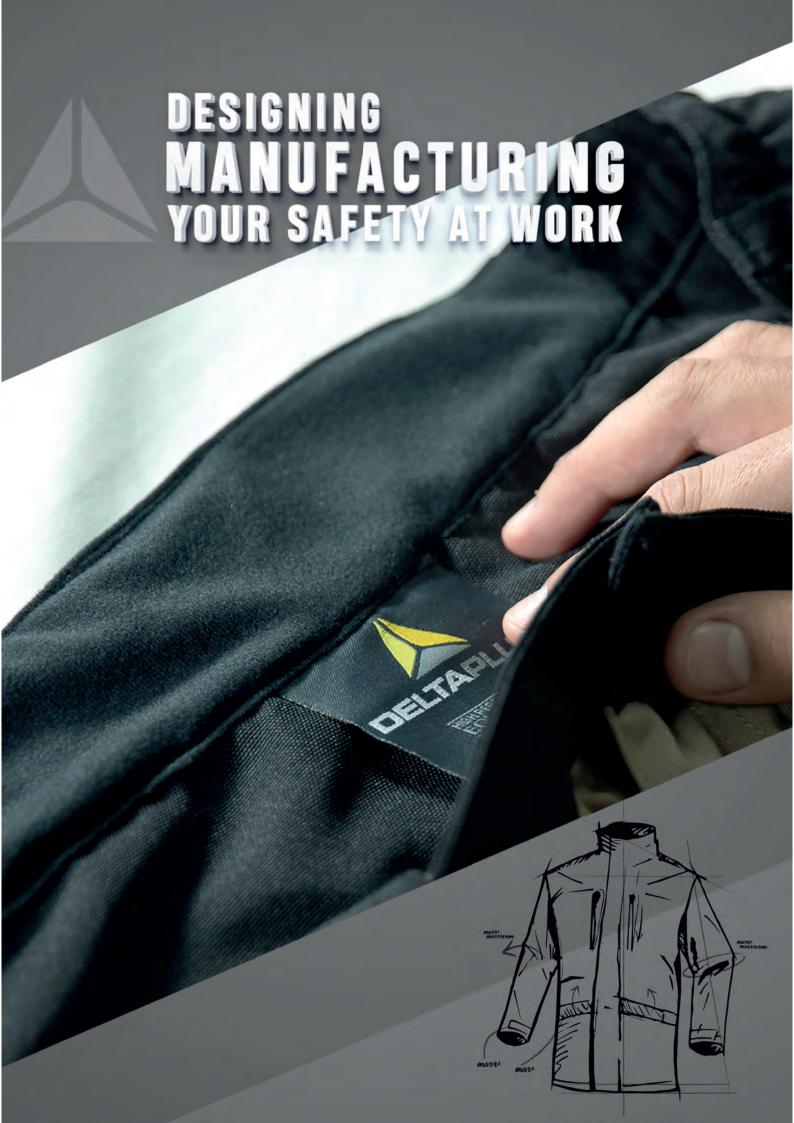


M2GEN









OUTDOOR WEAR

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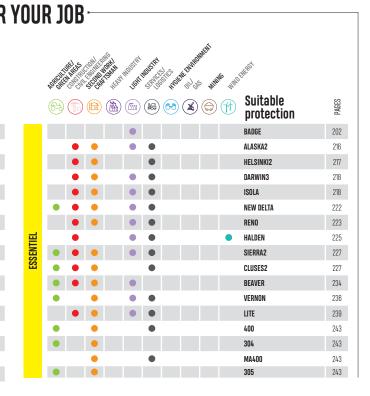


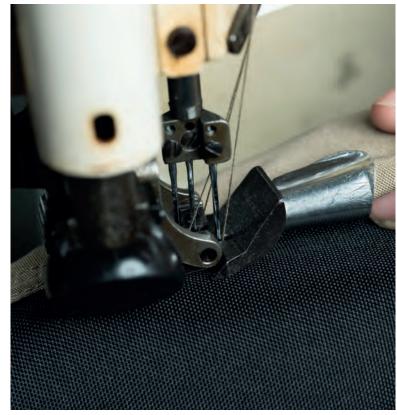
OUTDOOR WEAF



HELP WITH CHOICE

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- SIZES

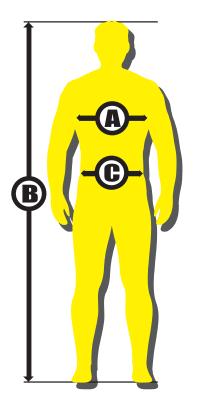
Order the right size by taking the correct measurements

To take the correct measurements, take the measurements directly on the body, without tightenning.

I.E.:

- the measurements outlined in the tables are for the **body**, not the garment.
- for wearing a garment over another, the width required is provided.

A	В	C
Chest measurement	Height	Waist measurement



SIZE EQUIVALENCE TABLE

MALE	В	XS 156/164	S 156/164	M 164/172	L 172/180	XL 180/188	XXL 188/196	3XL 196/204
	EU	44/46	46/48	48/50	50/52	52/54	54/56	56/58
	IT	36/38	38/40	42/44	46/48	50/52	54/56	58/60
JACKET / BOMBER Parka / Vest	DE	48/50	50/52	52/54	54/56	56/58	58/60	60/62
Chest measurement (A)	cm	90/94	94/98	98/102	102/106	106/110	110/114	114/118
	inch	351/2/37	37/381/2	381/2/40	40/411/2	411/2/431/2	431/2/45	45/461/2
TROUSERS Waist measurement (C)	EU	/	34/36	38/40	42/44	46/48	50/52	54/56
	IT/DE	/	38/40	42/44	46/48	50/52	54/56	58/60
	cm	/	66/74	74/82	82/90	90/98	98/106	106/117
	inch	/	26/29	29/32	32/351/2	351/2/381/2	381/2/411/2	411/2/46
IMPERMENT	EU	/	34/36	38/40	42/44	46/48	50/52	54/56
UNDERWEAR	IT/DE	/	38/40	42/44	46/48	50/52	54/56	58/60
01	cm	/	78/86	86/94	94/102	102/110	110/118	118/123
Chest measurement (A)	inch	/	301/2/34	34/37	37/40	40/431/2	431/2/461/2	461/2/481/2
Maint management (C)	cm	/	66/74	74/82	82/90	90/98	98/106	106/117
Waist measurement (C)	inch	/	26/29	29/32	32/351/2	351/2/381/2	381/2/411/2	411/2/46



	æ	o [©]	#	LILLIA	\$
KOLDYTOP	Dlook	Long sleeve raglan t-shirt.	COOK nationaida CEN Coolman® EOK alastana	S/M/L/	. v 10
KOLDYPANTS	Black Long Johns.		60% polyamide 35% Coolmax® 5% elastane.	XL/XXL	X IU

KOLDYTOP















Thermoregulator Lightweight

➡Very comfortable to wear, the Coolmax® technology allows faster evacuation of perspiration. Quick drying to give the user maximum



KOLDYPANTS















The 3-layers system allows you to always be well protected whatever the weather conditions.



The 3-layers concept guides you in the choice of clothes to use in order to not suffer from the weather conditions.



The first layer in contact with the skin should be comfortable and facilitate the evacuation of sweat to stay dry.



The second layer must protect you from the cold. This is the layer that can be doubled or tripled if the cold is really intense. We must favour textiles that trap the air as it is an excellent insulation : fleece, wadding...



The third and last layer must primarily protect you from external aggressions, particularly rain and wind, but also allow the evacuation

Remember that the best way to get rid of moisture is to open the zip and limit perspiration by adapting the intermediate layers to the outside temperature and the intensity of the planned work.



Evacuate, isolate and protect are reminiscent of first aid terms (Protect - Alert - Rescue) but if we stay within the protection, it's a concept that allows you to choose your clothes to protect you in any weather.

Laurent Kostrzewa, Body Protection Product Expert

	•	o [©]	#	J JJJJ J	V	
MILTON2	Black Red Navy blue	Parka. Waterproof seams. Fastening with zip storm flap. Adjustable bottom of garment with elastic drawstring. 6 pockets.	94% polyester 6% elasthane fabric, 2 laminated layers. Yokes: Polyurethane-coated Oxford polyester fabric. Quilted Taffeta polyester lining.	S/M/L/XL/ XXL/3XL	CE	x 10

MILTON2













BREATHABLE WATERPROOF **⇒**Evaporative resistance Class 2



Fleece lined collar →Comfort wear for optimised cold protection



Internal audio guide



Document storage pocket ⇒The necessary tools always at hand



Fixed badge holder included



Wind-proof mitten → Maintains heat





Inner opening ⇒Easy and qualitative marking





Padded removable hood ⇒Increased protection from the cold



<u></u> 210

	•	o [©]	#	LILLIA	V	
YEMAN	Black	Bomber jacket. Fastened with a zip under storm flap. Knitted cuffs and bottom of garment. 6 pockets.	65% polyester 35% cotton Ripstop fabric. Top lining: polyester polar fleece - Bottom lining: polyester Taffeta.	S/M/L/XL/ XXL/3XL	CE	x 10

YEMAN

















Padded removable hood Increased protection from the cold



Fleece lined collar ⇒Comfort wear for optimised cold protection



Decorative retro-reflective piping on the front and back



Fixed badge holder included



Inner opening ⇒Easy and qualitative marking







	•	o [©]	#	AUTUS	V	
EOLE	- Grey	Parka 3 in 1, removable jacket. Rain parka: Waterproof seams. Fastening with zip under storm flap. 6 pockets. Removable Jacket: Fastening with zip under storm flap. Bottom of sleeves with bias finishing. 2 pockets.	Fabric 74% polyamide 26% polyester with polyurethane coating. Fixed polyester mesh lining. Removal "Softshell" fabric vest 96% polyester 4% elastane.	S/M/L/XL/	EN343 3 1*	x5
TATRY		Parka. Waterproof seams. Fastening with zip under storm flap. Wadded removable hood. Adjustable bottom of garment with elastic drawstring. 8 pockets.	Fabric 94% polyester 6% elastane 2 laminated layers. Padded polyester taffeta lining.	XXL/3XL		x 10

EOLE













Waterproof zips



Decorative retro-reflective





Fixed hood



Detachable jacket "Softshell" fabric - 3 in 1

- **⇒**Lightness and protection against cold and fine rain
- ⇒Use all year round

TATRY













BREATHABLE WATERPROOF ⇒Evaporative resistance Class 2



→Maintains heat **→**Wind-breaker





Padded removable hood **→**Increased protection from the cold



Fleece lined collar optimised cold protection



Inner opening ⇒Easy and qualitative marking



	æ	o ^o	#	LIGHT	V	
VIGO		Parka. Fastening zip under storm flap. Fixed hood. 4 pockets.	Fabric 96% polyester 4% elastane 2 laminated layers. Padded polyester taffeta lining.	S/M/L/XL/	<i>((</i>	v 10
КОРЕК	Black	Stonewashed jacket. Fastening with zip under press studs storm flap. 6 pockets including 2 inner.	Cloth 100% cotton 270 g/m². Polyester polar fleece lining.	S/M/L/XL/ XXL/3XL		X IU

VIGO













Removable badge holder included



Fleece lined collar **⇒**Comfort wear for optimised cold protection



Inner opening ⇒Easy and qualitative marking



Inner cuffs → Maintains heat









KOPER















Sherpa lining on the back → Comfort wear for optimised cold protection







	•	o ^o	#	juju	V	\$
CARSON	Grey-Orange Black-Grey Navy blue-Royal blue	Parka (To match the MACH range). Waterproof seams. Fastening with zip under velcro storm flap. Adjustable waist with elastic drawstring. Removable hood. 5 pockets.	Polyurethane-coated Oxford polyester fabric. Quilted polyester Taffeta lining.	S/M/L/XL/ XXL/3XL	C € ⊕ 8N343 3 1*	x 10

CARSON















Fleece lined collar **⇒**Comfortable to wear and protects against the cold



Decorative reflective piping on sleeves



Fixed badge holder included



Inner cuffs →Maintains heat **→**Wind-breaker



Inner opening ⇒Easy and qualitative marking









To match the STOCKTON2 vest and NORTHWOOD2 bomber jacket

	æ	o ^c	#	AUGUS		\checkmark	\$
FINNMARK	Navy blue-Black	Parka. Waterproof seams. Collar with polar lining for optimal comfort. Fastening with zip under velcro storm flap. Adjustable bottom of garment with elastic drawstring. 5 pockets.	PVC-coated Ripstop polyester fabric. Quilted polyester Taffeta lining.	S/M/L/XL/	CE	EN343 3 1*	
GOTEBORG	Navy blue	Parka. Waterproof seams. Collar with polar lining for optimal comfort. Fastening with zip under velcro storm flap. Removable hood. Adjustable bottom of garment with elastic drawstring. 5 pockets.	PVC-coated Twill polyester fabric. Top lining: Wadded polyester polar fleece. Bottom lining: Wadded polyester Taffeta.	XXL/3XL		EN14058 3 3 0,199 m². K/W WP EN343 3 1*	x10

FINNMARK

















Removable hood



Inner opening ⇒Easy and qualitative marking



GOTEBORG













Fixed badge holder included



Inner opening ⇒Easy and qualitative marking







Ĺ	•	o [©]	#	FIGUR	>	
ALASKA2	Black-Red Navy blue-Royal blue Black-Grey	Parka 2 in 1, removable lining. Parka: Waterproof seams. Fastening with zip under storm flap with Velcro strap. Adjustable bottom of garment with elastic drawstring. 5 pockets. Removable lining: 1 pocket.	Polyester pongee fabric with PVC coating Fixed polyester taffeta lining. Padded polyester taffeta removable lining 3M Thinsulate™.	S/M/L/XL/ XXL/3XL	C € EN14058 4 3 0,215 m². K/W X X 1 1 1 1 1 1 1 1	x10

ALASKA2

















Removable hood



Decorative reflective strips (front and back)



Fixed badge holder included



Ribbed inner cuffs ➡Maintains heat

→Wind-breaker









3M Thinsulate™ padded thermal removable lining

►Very high heat retention

►Modulable according to the activity



	æ	o ^c	#	AUUU	V	\$
HELSINKI2	Navy blue Navy blue-Royal blue	Parka. Waterproof seams. Fastening zip under velcro and press studs storm flap. Adjustable waist with elastic drawstring. 4 pockets.	PVC-coated polyester fabric. Wadded polyester Taffeta lining.	S/M/L/XL/ XXL/3XL	C € EN342 0.273m² K/W (B) 2 X	x 10

HELSINKI2











Wadded removable hood ⇒Increased protection from the cold



Decorative retro-reflective piping on the front and back



Removable badge holder included



Ribbed inner cuffs → Maintains heat and wind-proof



Inner opening ⇒Easy and qualitative marking









	•	o [©]	#	JULE	V	
DARWIN3		Parka. Waterproof seams. Fixed hood. Adjustable waist with drawstring. 5 pockets.	PVC-coated Pongee polyester fabric. Quilted polyester Taffeta lining.	XS/S/M/L/ XL/XL/3XL		
ISOLA	Navy blue	3 in 1 parka: Removable lining. Parka :Waterproof seams. Fixed hood. Adjustable waist and bottom of garment with elastic drawstring. 6 pockets. Removable lining :Collar with corduroy lining. Removable sleeves. Fastening with press studs. Gusset opening on sides with press-studs. 2 pockets.	PVC-coated polyester fabric. Fixed polyester Taffeta lining. Removable quilted polyamide Taffeta lining.	S/M/L/ XL/XXL	C €	x10

DARWIN3













Removable badge holder included



Inner opening ⇒Easy and qualitative marking



Ribbed inner cuffs →Maintains heat

→Wind-breaker





ISOLA















Removable lining →Increased protection from the cold

⇒Use all year round







	•	o ^o	#	tillit	*
M00VE	Black-Red Nawy blue-Orange Black-Camouflage	Bi-material jacket. Fastening zip under storm flap. Fixed hood. Knitted cuffs. 5 pockets.	Quilted polyurethane-coated Ripstop polyamide fabric. Yokes: Polyester fabric. 2 laminated layers. Polyester taffeta lining.	S/M/L/XL/ XXL/3XL	x10

MOOVE



Removable badge holder included



Decorative retro-reflective piping on the front and back





Polyamide ripstop ⇒Increased resistance to tearing

Polyester wadding ⇒Light and warm



	æ	o ^o	#	HILL	V	\$
MOTION	Grey	Bi-material jacket. Fastening with zip under storm flap. Bottom of sleeves with bias finishing. 5 pockets.	"Softshell" fabric 96% polyester 4% elastane. Yokes: Polyester fabric coated with acrylic padded. Polyester taffeta lining.	S/M/L/XL/	C€	
DOON	Black-Red Grey-Orange Navy blue-Royal blue	Down jacket (to match MACH range). Fastening with zip under storm flap. Cuffs and bottom of garment with bias finishing. Fixed hood. 2 pockets.	Ouilted polyamide fabric. Polyester taffeta lining.	XXL/3XL		x10

MOTION









Fixed hood



Decorative retro-reflective serigraph



Softshell ⇒Lightness and protection from cold, wind and fine rain

DOON











SLIGO matching rain parka ➡To add rain protection







	•	o ^o	#	jujuk	\checkmark	\$
NORTHWOOD2	Grey-Orange Navy blue-Royal blue Black-Grey Green-Black	Warm padded jacket (to match the MACH range). Waterproof seams. Fastening with zip under storm flap with Velcro strap. Fixed hood. 9 pockets.	Polyurethane-coated Oxford polyester fabric. Quilted polyester Taffeta lining.	S/M/L/XL/ XXL/3XL	EN343 3 1* C €	x 10
NEW DELTA	Navy blue	Bomber jacket with removable sleeves. Elasticated cuffs and bottom of garment. 4 pockets.	65% polyester 35% quilted cotton fabric. Quilted polyester Taffeta lining.	M/L/XL/XXL		

NORTHWOOD2























Fixed badge holder included



Inner opening ightharpoonupEasy and qualitative marking



Fixed hood



Decorative retro-reflective piping on the front and









STOCKTON2 jacket and matching CARSON parka

NEW DELTA





















	æ	o ^o	#	ijijiji	V	\$
RANDERS	Grey Navy blue Black	Quilted bomber jacket with removable sleeves (To match the MACH range). Fastened with a zip under the storm flap with press studs. Knitted cuffs and bottom of garment. 5 pockets.	Quilted polyurethane-coated polyamide fabr Lining: Quilted in polyester Taffeta.	S/M/L/XL/	((v 10
RENO	Black Navy blue Green	Bomber jacket with removable sleeves. Collar with polar lining for optimal comfort. Knitted cuffs and bottom of garment. 5 pockets.	Polyurethane-coated Oxford polyester fabric. Polyester polar fleece lining.	XXL/3XL		XIU

RANDERS













Padded removable hood ⇒Increased protection from the cold



Fixed badge holder included









Removable sleeves ⇒Use all year round

RENO















Fleece lining
Comfort wear for optimised cold protection



Fixed badge holder included









OUTDOOR WEAR

BODYWARMERS

	æ	o [©]	#	JULIA		
FIDJI2	Navy blue-Royal blue Grey-Black Black Black-Red	Bodywarmer. Collar with polar lining for optimal comfort. 4 pockets.	PVC-coated Pongee polyester fabric. Yokes: PVC-coated Oxford polyester. Wadded polyester polar fleece lining.	S/M/L/XL/ XXL/3XL	C€	x 10

FIDJ12













Lateral zips ⇒Freedom of movement



Kidney protector

→ Perfect protection of the lower back against the cold









	æ	o ^c	#	LIGHT	V	
NATORI	Grey-Black	Bodywarmer (To match MACH 5 range). Fastened with a zip under storm flap. Bias finishing. 6 pockets.	Softshell fabric polyamide/polyester polar.	S/M/L/XL/	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	v 10
HALDEN		Vest. Fastening with zip under storm flap. Armholes with bias finishing. 4 pockets.	Softshell 100% polyester fabric, 3 laminated layers.	XXL/3XL		x 10

NATORI











Decorative retro-reflective piping on the front and back





HALDEN













3 layers softshell ►Lightness and protection from cold, wind and fine rain





OUTDOOR WEAR

BODYWARMERS



	æ	o [©]	#	LILLIA	V	\$						
G-DOON	Black-Red Black-Camouflage Navy blue-Royal blue	Bodywarmer. Fastening zip under storm flap. Armholes with bias finishing. Low back protection. 3 pockets.	Polyurethane-coated Ripstop polyamider fabric. Polyester Taffeta lining.	S/M/L/XL/ XXL/3XL	S/M/L/XL/	S/M/L/XL/	S/M/L/XL/	S/M/L/XL/	S/M/L/XL/	S/M/L/XL/	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	v 10
GRANDERS	Black	Padded vest. Zip fastening. Armholes with bias finish. Adjustable bottom of garment with elastic drawstring. 3 pockets.	Polyester fabric coated with polyurethane. Polyester taffeta lining.		CE	x10						

G-DOON













Polyamide ripstop

→Increased resistance to tearing

Polyester wadding ⇒Light and warm

GRANDERS











SLIGO matching rain parka



	€	o ^o	#	HILL	V	
SIERRA2	Navy blue-Orange Grey-Green Navy blue-Red Navy blue	Multipocket bodywarmer (to match the PANOSTYLE range). Fastening with zip under storm flap. Elasticated on both sides and back. 9 pockets.	65% polyester 35% quilted cotton canvas. Wadded polyester Taffeta lining.	S/M/L/XL/ XXL/3XL	C€	x 20
CLUSES2	Navy blue	Bodywarmer. Fastening with zip under storm flap. Elasticated bottom of garment. 6 pockets.	65% polyester 35% quilted cotton canvas. Polyester Taffeta lining.		0 0 0 0 0 0 0	0 0 0 0 0 0 0

SIERRA2













Wind-proof armholes



Fixed badge holder included



Kidney protector
Perfect protection of the lower back against the cold











CLUSES2













BODYWARMERS - TROUSERS

	•	o ^o	#	J JJJJ J	V	\$
DMACHGIW	Black-Red Grey-Yellow	Multipocket bodywarmer (To match theD-MACH range). Fastened with a zip under the storm flap with press studs. Elasticated on both sides and back. 8 pockets.	Twill 65% polyester 35% cotton 245g/m². Padded polyester taffeta lining.	S/M/L/XL/ XXL/3XL	CE	x 10
DMACHPAW	Ulcy-Tollow	Trousers. Elasticated waist on both sides. 6 pockets including 1 ruler.				

DMACHGIW

















Decorative retro-reflective



Fixed badge holder



Kidney protector ⇒Perfect protection of the lower back against the cold



Fleece lined collar **⇒**Comfort wear for optimised cold protection



Inner opening ⇒Easy and qualitative marking





DMACHPAW















Lower trousers reinforced with anti-dirt coating



Quilted lined pants **⇒**Comfort wear for optimised cold protection



Jean style pockets



Kneepad pockets →Allows you to insert M2GEN kneepads to work more comfortably on your knees





	•	o ^c	#	LIJUL	V							
STOCKTON2	Grey-Orange Navy blue-Royal blue Black-Grey Green-Black	Multipocket bodywarmer (to match the MACH range). Fastening with zip under storm flap. Adjustable bottom with elastic drawstring. 9 pockets.	Quilted twill 65% polyester 35% cotton 235 g/m². Wadded polyester Taffeta lining.	S/M/L/XL/ XXL/3XL						S/M/L/XL/		40
M2PW2	Grey-Orange Navy blue-Royal blue Black-Grey	Warm trousers. Elasticated waist on both sides. 7 pockets including 1 ruler.	Twill 65% polyester 35% cotton 245 g/m². 100% flannelette lining.			x 10						

STOCKTON2

















Wind-proof armholes



Multi-pocket















To match the NORTHWOOD2 jacket and CARSON parka

M2PW2

















Decorative retro-reflective piping on the back



Flannel lined trousers **⇒**Comfort wear for optimised cold protection



Fixed badge holder included



Triple seams ⇒Increased lifespan





Kneepad pockets →Allows you to insert M2GEN kneepads to work more comfortably on your knees

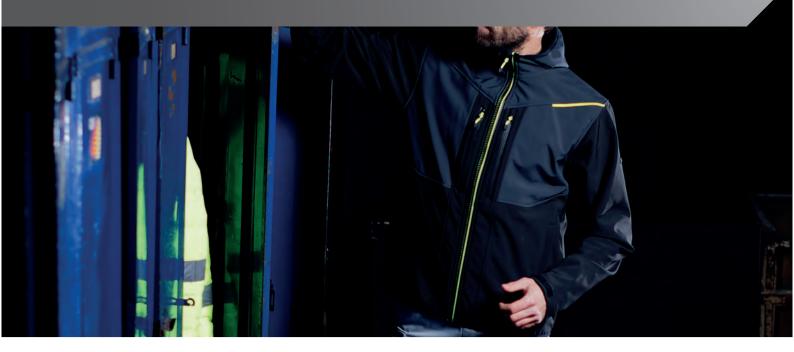


MAPOC removable pockets sold separately →The necessary tools always at hand





POLARS - SOFTSHELL - SWEATS - PULL-OVER



	æ	o ^o	#	Juli	V	*
HORTEN2	Black-Orange Black-Camouflage Black-Yellow	Jacket. Fastening zip under storm flap. Fixed hood. 4 pockets.	Softshell 96% polyester 4% elasthane fabric. 3 laminated layers.	S/M/L/XL/ XXL/3XL	CE	x 10













Removable badge holder included



Decorative retro-reflective piping on the front and back

3 layers softshell

⇒Lightness and protection from cold, wind and fine rain







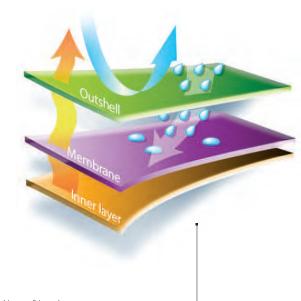
Softshells are developed to meet everyday use throughout the year whether worn in the first or second layer.



Softshells are jackets that derive their name from the textile that make them up and whose performance differs according to the textiles used.

The presence of a membrane makes the textile a windbreaker, it is then composed of 3 textile layers:

- external very often stretch
- the membrane
- the inner side very often polar for the comfort and the contribution of heat.



Composed of 2 textile layers with no membrane, it is a real technical alternative to the polar with its appearance and its Water repellent properties.

The Softshell jacket can be used as a 2nd or 3rd layer. Wind-proof, Water repellent, insulating with or without a hood, with or without sleeves, this is real everyday clothing.



Today it is unavoidable, the softshell is THE technical clothing that can be used all year round. Light, flexible, wind-proof it is a true ally for everyday life. When temperatures are mild it is an excellent garment to protect from the wind, cold and light rain. And when it's colder, we recommend using the softshell as a 2nd layer under a parka.

Laurent Kostrzewa. Body Protection Product Expert

POLARS - SOFTSHELL - SWEATS - PULL-OVER

	•	o [©]	#	J JJJJJ	
MYSEN2	Blue-Black Grey-Fushia Black-Red Grey-Yellow	Jacket (to match the D-MACH range). Fastening with zip under storm flap. Bottom of sleeves with bias finishing. 5 pockets.	"Softshell" fabric 96% polyester 4% elastane.	XS/S/M/ L/XL/XXL/ 3XL	v.10
LULEA2	Grey-Orange Navy blue-Black Grey-Black	Jacket. Fastening with zip under storm flap. Bottom of sleeves with bias finishing. Adjustable bottom of garment with elastic drawstring. 5 pockets.		S/M/L/XL/ XXL/3XL	- x10



LULEA2

















	æ	o [©]	#	tilit	
BRIGHTON	Grey-Black	Polar fleece jacket. Zip fastening. 3 pockets.	Polyester polar fleece 350 g/m². Inserts: Polyester Taslon fabric.	S/M/L/XL/ XXL/3XL	x 10
SHERMAN	Grey	Polar fleece jacket. Fastened with a zip under storm flap. Knitted cuffs and bottom of garment. 5 pockets.	Polyester polar fleece 540 g/m².		x 5

BRIGHTON











SHERMAN















POLARS - SOFTSHELL - SWEATS - PULL-OVER

	•	o [©]	#	Little	V	
NAGOYA	Navy blue Grey	Cardigan jacket (To match the MACH ORIGINALS range). Fastened with a zip under storm flap. Cuffs and bottom of garment with bias finishing. 6 pockets.	Polyester stitch. Yokes: Cordura® and "Softshell" 96% polyester 4% elastane fabric.		C€	
MARMOT		Truck driver polar fleece, pullover appearance. Zip closure. Cuffs and bottom of fleece with bias finish.	Polyester knit 285 g/m². Yokes: 100% polyester material, 2 laminated layers.	S/M/L/XL/ XXL/3XL		x 10
BEAVER	Navy blue- Orange Grey-Orange Grey-Green Black	Cardigan jacket (To match the MACH and PANOSTYLE ranges). Fastened with zip under storm flap. Cuffs and bottom of garment with bias finishing. 4 pockets.	Polyester stitch 380 g/m². Yokes: "Softshell" 96% polyester 4% elastane fabric.			

NAGOYA



















Fleece lined collar **⇒**Comfort wear for optimised cold protection



Decorative retro-reflective piping on the front and sleeves





MARMOT



















BEAVER









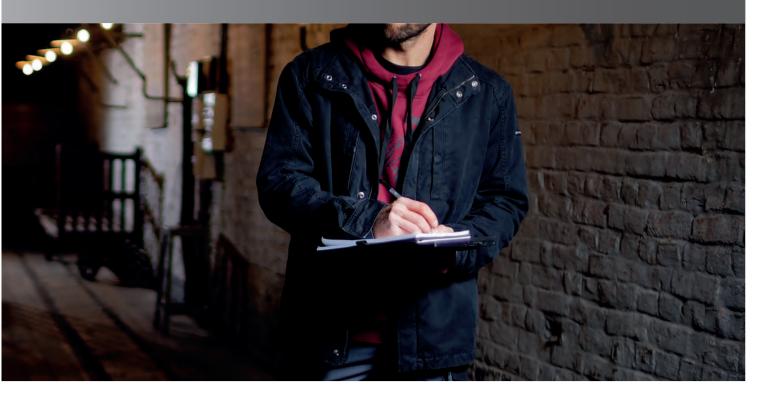




→Very good protection against the cold →Optimised comfort thanks to the use of Softshell







	æ	o [©]	**		V	*
ANZIO	Grey Navy blue	Sweat jacket. Front fastening with zip. Knitted cuffs and bottom of garment. 4 pockets. Adjustable hood with drawstring.	OFFIC and control of a control of the control of th	S/M/L/XL/		v.10
LECCO	Wine-coloured- Black Grey-Yellow Black-Red	Sweat jacket. Knitted cuffs and bottom of garment. 2 lower pockets. Adjustable hood with drawstring.	65% polyester fleece 35% cotton.	XXL/3XL		x10

ANZIO











LECCO











POLARS - SOFTSHELL - SWEATS - PULL-OVER

	æ	o [©]	#	LIFTIN	
VERNON	Black Royal blue Red	Polar fleece jacket. Elasticated cuffs. 2 pockets.	Polyester polar fleece 280 g/m².	S/M/L/XL/	. v.10
ALMA	Navy blue Black Orange	Under Shirt. Raglan sleeve with zip Mandarin collar. Designed for next to skin use.	Polyester polar fleece 200 g/m².	XXL/3XL	x10

VERNON















ALMA















CAPS - HOODS - GLOVES



	•	o [©]	JULE	
KARA	Red Black Orange Grey Navy blue	Cap in wadded 3M Thinsulate™ polyester polar fleece.		x 120
CHAMONIX	Red Navy blue	Neck scarf in polyester polar fleece. Tightening with elastic drawstring.	•••	
JURA	Grey Black Navy blue	Double thickness cap in acrylic knit.	One size	x 240
NORDIC	Navy blue	Warm cap in polyamide canvas with synthetic lining. Wadded polyester Taffeta lining. Protective ear flaps		100
NEVE	Navy blue Black	Gloves in polyester polar fleece.		x 120





CHAMONIX





JURA







NORDIC





NEVE









	•	o ^o	#	J JJJJ J	V	
OTAKE	Grey-Black	Light bomber jacket (To match the MACH 5 range). Waterproof seams. Fixed hood with mesh lining. Fastening with zip under storm flap. Elasticated waist and bottom of garment. 6 pockets.	Polyurethane-coated polyamide fabric. Polyester mesh lining.	S/M/L/XL/	C € ⊕ 3/3 3/3	x5
LITE	Grey-Orange Grey-Green Navy blue-Orange Black	Light bomber jacket (To match the MACH and PANOSTYLE ranges). Waterproof seams. Fixed hood. Fastening with zip under storm flap. Elasticated waist and bottom of garment. 5 pockets.	PVC-coated polyester fabric. Polyester mesh lining.	XXL/3XL		x 10





Fixed badge holder included



Fleece lined collar →Comfort wear for optimised cold protection



Waterproof zips



Decorative retro-reflective piping on the front and back



Inner opening ⇒Easy and qualitative marking





















Decorative retro-reflective piping on the front and back



Inner opening ⇒Easy and qualitative marking







OUTDOOR WEAR RAIN

	æ	o ^c	#	JULI	\checkmark	
SLIGO	Black-Red Navy blue-Royal blue Grey-Orange	Light parka (To match the MACH and PANOSTYLE ranges). Waterproof seams. Fastening with zip under storm flap with Velcro strap. Fixed hood. 7 pockets.	Polyurethane-coated Oxford polyester fabric. Polyester mesh lining.	S/M/L/XL/ XXL/3XL C	C € ⊕ EN343	x 10
GALWAY	Black	Rain trousers. Waterproof seams. Elasticated waist. Bottom legs with press-stud opening. 2 pockets and 2 hand slits.	Polyurethane-coated Oxford polyester fabric.	AAL/ JAL	1*	

SLIGO













Decorative retro-reflective piping on the back



Fixed badge holder included



Inner opening ⇒Easy and qualitative marking



Matching DOON puffer jacket







GALWAY













Adjustable leg bottoms with gussets

Easy dressing





	•	o ^o	#	inin	V	***
LIDINGO	Navy blue	Rain jacket and trousers. Waterproof seams. JACKET: Fixed hood. Adjustable bottom with elastic drawstring. 5 pockets. TROUSERS: Elasticated waist. Adjustable bottom of legs with press-studs. 2 pockets.	PVC-coated polyester fabric. Jacket lining: Polyester mesh. Trousers lining: Polyester Taffeta.	S/M/L/XL/ XXL/3XL		
TYPHOON		Rain trousers. Waterproof seams. Elasticated waist. Bottom legs with press- stud opening. 5 pockets.	PVC-coated polyester fabric. Polyester Taffeta lining.	M/L/XL/ XXL	C € ⊕ 8N343 3 1*	x 10
TOFINO	Black	Rain coat. Waterproof seams. Fastening with zip under velcro and press studs storm flap. Fixed hood. 2 pockets. Flap ventilation.	PVC-coated polyester fabric. Polyester mesh lining.	S/M/L/XL/ XXL/3XL		

LIDINGO

















Fixed hood



Decorative Retro-reflective tapes







TYPHOON











Adjustable leg bottoms



TOFINO











Ventilation flap with pressures to facilitate

marking ►Increased breathability for better evacuation of perspiration



Decorative reflective bands (front and back)



	æ	o [©]	#	HILL	9	
850	Navy blue Yellow Green	Rain jacket and trousers. Sealed seams. JACKET: Fastening with zip under storm flap. Fixed hood. Underarm ventilation with eyelets. Elasticated inside cuffs. Adjustable bottom of garment with elastic drawstring. 2 pockets. Ventilation back flap. TROUSERS: Elasticated waist. Fly closed with press-studs. Adjustable bottom of legs with press-studs. 2 hand slits.	Mixed polyurethane-coated polyester support.	S/M/L/XL/ XXL/3XL	C €	x 10

850











	•	o [©]	#	JUL	S	\$
400	Royal blue Navy blue Yellow Green	Rain jacket and trousers. Waterproof seams. JACKET: Fastening with zip under storm flap. Fixed hood. Raglan sleeves. Adjustable cuffs with press-studs. 2 pockets. TROUSERS: Elasticated waist. Adjustable bottom of legs with press-studs. 2 hand slits.	PVC-coated polyester fabric.			x 20
MA400		Rain coat. Waterproof seams. Fixed hood. Fastening with zip under storm flap. Elasticated inside cuffs. 2 pockets.		M/L/XL/ XXL	FN919	
304	Yellow Green	Rain jacket and trousers. Sealed seams. JACKET: Fixed hood. Fastening with zip under press-studs flap. Raglan sleeves. Elasticated inside cuffs. 2 pockets. TROUSERS: Elasticated waist. Fly closed with press-studs. Adjustable bottom of legs with press-studs. 2 hand slits.	PVC-coated polyester support. Double sided		C € 3 3 1*	x 10
305	7	Rain coat. Sealed seams. Fixed hood. Fastening with double press-stud flap. Raglan sleeves. Elasticated inside cuffs. 2 pockets.	coating.	M/L/XL/ XXL/3XL	7	











MA400









Decorative retro-reflective bands (front and back)

Dorsal ventilation flap and underarm eyelets Increased breathability for better evacuation of perspiration 400 - MA400 - 304 - 305



304







305







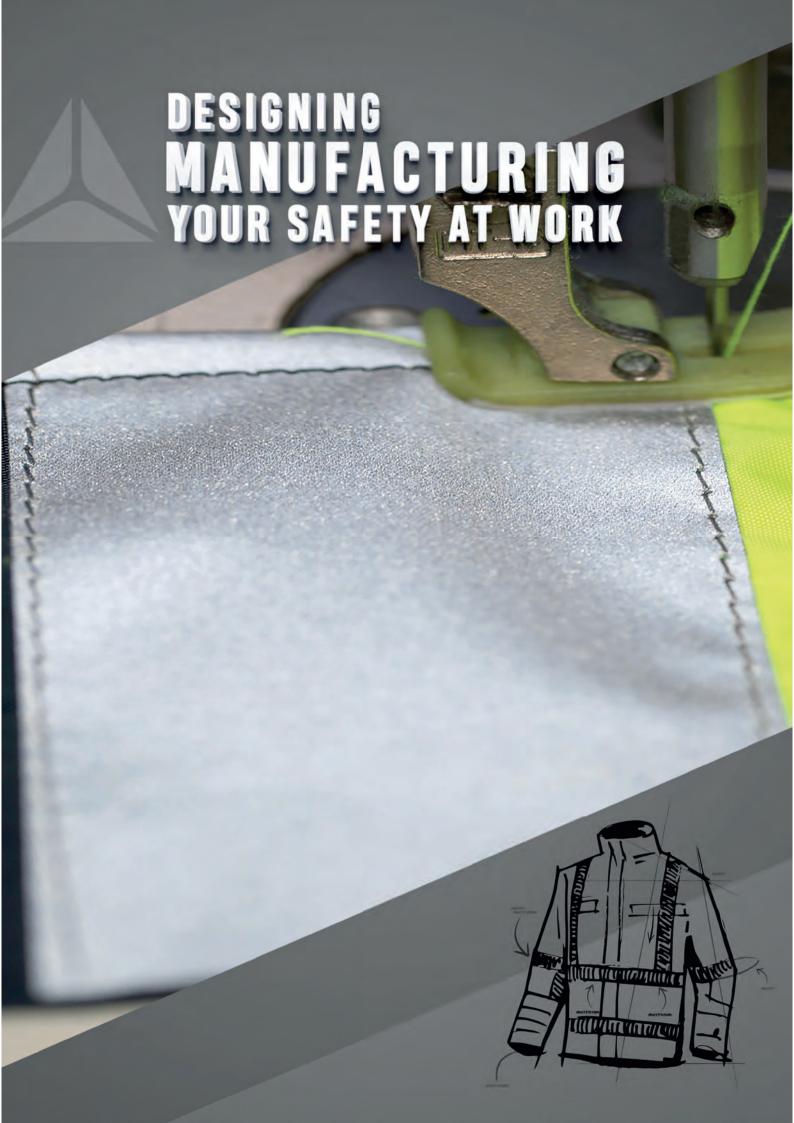












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HELP WITH CHOICE

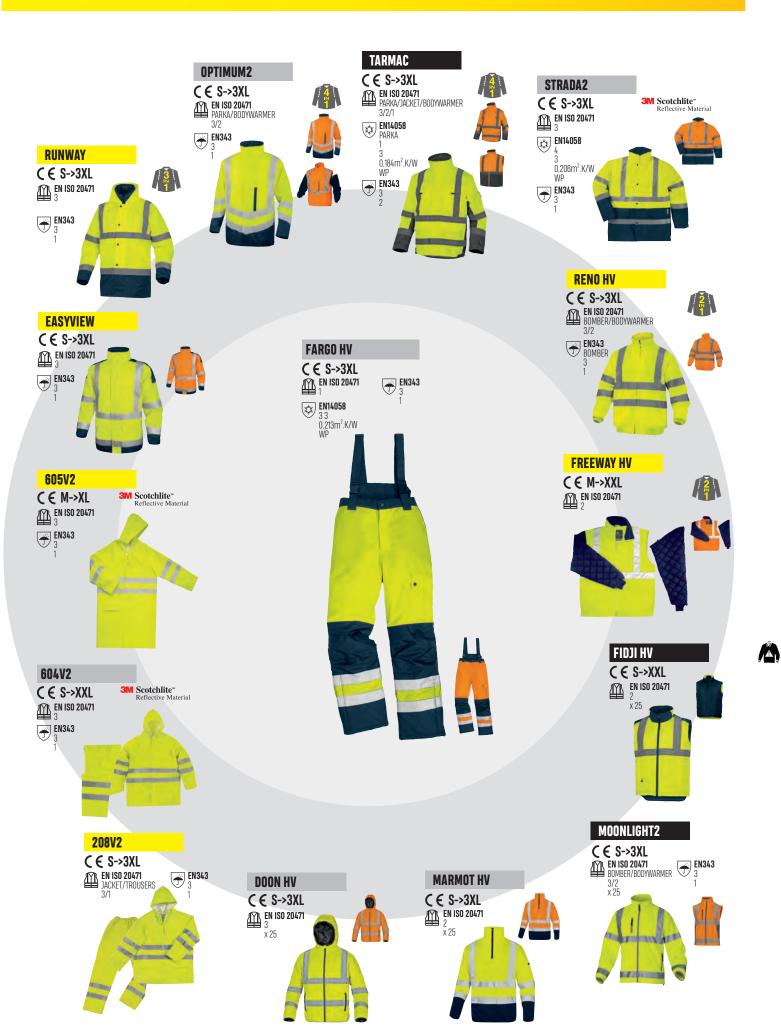
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OUTDOOR HIGH VISIBILITY

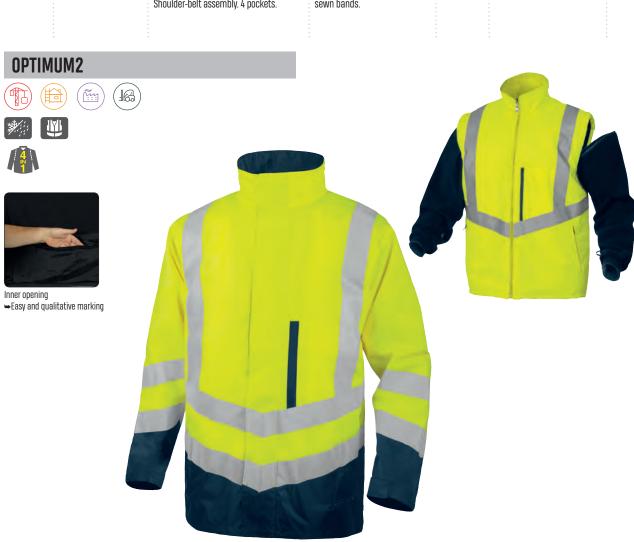
	•	o ^o	#	juju	V	\$
TARMAC	Fluorescent orange-Grey Fluorescent yellow-Grey	4 in 1 parka with removable jacket. Rain parka: waterproof seams. Fastening with zip under press stud storm flap. 6 pockets. high visibility: Class 3 - silver colour - Shoulder-belt and parallel assembly. Removable jacket: zip fastening. Bottom of sleeves with biais finishing. 2 pockets. high visibility: Class 2 - silver colour - Shoulder-belt assembly.	Polyurethan-coated Oxford polyester fabric. Fixed polyester Taffeta lining. Softshell removable jacket 96% polyester 4% elastane. Retro-reflective sewn bands.	S/M/L/XL/ XXL/3XL	EN ISO 20471 PARKA/JACKET/ BODYWARMER 3 / 2 / 1 EN343 PARKA 3 2	x5







	•	o [©]	#	tillip	V	*
OPTIMUM2	Fluorescent yellow- Navy blue Fluorescent orange- Navy blue	Parka 4 in 1, removable bodywarmer. Parka: Waterproof seams. Fastening with zip under velcro storm flap. Fixed hood. Polar fleece collar. High visibility: Class 3 - Silver colour - Shoulder-belt and parallel assembly. 4 pockets. Removable jacket: Waterproof seams. Removable sleeves. High visibility: Class 2 - Silver colour - Shoulder-belt assembly. 4 pockets.	Polyurethane-coated Oxford polyester fabric. Fixed polyester Taffeta lining. Removable bodywarmer: Polyurethane-coated Oxford polyester with removable sleeves in polyester polar fleece. Quilted polyester Taffeta lining. Retro-reflective sewn bands.	S/M/L/XL/ XXL/3XL	EN ISO 20471 PARKA/JACKET/ BODYWARMER 3/2/2 EN343 3 1*	x 10







OUTDOOR HIGH VISIBILITY

Ď	æ	o ^o	#	JULIA	o o o o o o o o o o o o o o o o o o o	♥		
STRADA 2	Fluorescent yellow-Navy blue Fluorescent orange-Navy blue	Warm parka. Waterproof seams. Fixed hood. Underarm ventilation eyelets. Fastening with zip under press stud flap. Adjustable waist with elastic drawstring. High visibility. Class 3 - Silver colour - Shoulder-belt and parallel assembly. 3 pockets.	Polyurethane-coated Oxford polyester fabric. Ouilted polyester Taffeta lining. 3M Scotchlite™ retro-reflective sewn bands.	S/M/L/XL/	ω ΄ Ε	CE	EN ISO 20471 CLASS 3 EN EN 343	x 5
RUNWAY	Fluorescent yellow-Navy blue	Parka 3 in 1, removable lining. Rain parka: Waterproof seams. Fastening with zip under press studs storm flap. 3 pockets. High visibility. Class 3 - Silver colour - Shoulder belt and parallel assembly. Removable lining: Zip fastening.	Polyurethan-coated Oxford polyester fabric. Fixed polyester taffeta lining. Removable padded polyester taffeta fabric lining. Retro-reflective sewn bands.	XXL/3XL		PARKA 3 1*	x 10	

STRADA 2

















Ribbed inner cuffs

- ➡Maintains heat
- **→**Wind-breaker



RUNWAY





















	æ	o ^c	#	TITLE	V	*
EASYVIEW	Fluorescent yellow-Navy blue	Warm parka Waterproof seams. Fixed hood. Fastening with zip under velcro storm flap. High visibility: Class 3 - Silver colour - Shoulder-belt and parallel assembly. 4 pockets.	Polyurethane-coated Oxford polyester fabric. Ouilted polyester Taffeta lining. Retro- reflective sewn bands.	S/M/L/XL/	EN ISO 20471 CLASS 3 Max. 25 x	
FARGO HV	Fluorescent orange-Navy blue	Warm salopettes. Waterproof seams. Elasticated waist on both sides. Adjustable elasticated braces. Preformed knees. High visibility: Class 1 - Silver colour. 4 pockets.	Polyurethane-coated Oxford polyester fabric. Wadded polyester Taffeta lining. Retro- reflective sewn bands.	XXL/3XL	EN343 3 1*	x 10

EASYVIEW

















FARGO HV















Kidney protector →Perfect protection of the lower back against the cold



Bottom with gusset ⇒Easy dressing









OUTDOOR HIGH VISIBILITY

	æ	o ^o	#	LILLIA	♥	
MOONLIGHT2	Fluorescent orange-Grey Fluorescent yellow-Grey	Jacket. Fastening with zip under storm flap. Bottom of sleeves with bias finishing. Adjustable bottom of garment with elastic drawstring. High visibility: Class 3 - Silver colour - Shoulder-belt assembly. 5 pockets.	Softshell 100% polyester fabric, - 3 laminated layers. Retro- reflective sewn bands. XXL/3XL	S/M/L/XL/	EN ISO 20471 BOMBER/ BODYWARMER 3 / 2 Max. 25 x	v10
LEGA	Fluorescent yellow Fluorescent orange	Jacket. Fastening with zip under storm flap. Bottom of sleeves with bias finishing. High visibility: Class 3 - Silver colour - Shoulder-belt assembly. 4 pockets.		EN ISO 20471 CLASS 3	A IU	

MOONLIGHT2















3 layers softshell **⇒**Lightness and protection from cold, wind and fine rain





Removable sleeves ⇒Use all year round

LEGA













3 layers softshell ⇒Lightness and protection from cold, wind and fine rain









	•	o ^o	#	JUL	•	
DOONHV	Fluorescent yellow Fluorescent orange	Down jacket. Fastening with zip under storm flap. Cuffs and bottom of garment with bias finishing. Fixed hood. 2 pockets.	Ouilted Ripstop polyester fabric. 2 laminated layers. Polyester taffeta lining. Retro-reflective sewn bands.	S/M/L/XL/	EN ISO 20471 CLASS 3 Max. 25 x	
MARMOTHV	Fluorescent yellow- Navy blue Fluorescent orange- Navy blue	Truck driver polar fleece, pullover appearance. Zip closure. Cuffs and bottom of fleece with bias finish. High visibility: Class 2 - Silver colour - Shoulder- belt and parallel assembly.	Polyester knit 380 g/m². Yokes: Polyester knit 285 g/m².	XXL/3XL	EN ISO 20471 CLASS 2 Max. 25 x	x10

DOONHV





















MARMOTHV



















OUTDOOR HIGH VISIBILITY

	æ	o ^c	#	LIJUS	V	•
RENO HV	Fluorescent yellow Fluorescent orange	Bomber jacket with removable sleeves. Collar with polar lining for optimal comfort. Knitted cuffs and bottom of garment. Bomber jacket: High visibility Class 3 - Silver colour - Shoulder-belt and parallel assembly. Bodywarmer: High visibility Class 2 - Silver colour - Shoulder-belt and parallel assembly. 4 pockets.	Polyurethane-coated Oxford polyester fabric. Polyester polar fleece lining. Retro-reflective sewn bands.	S/M/L/XL/ XXL/3XL	EN ISO 20471 BOMBER/ BODYWARMER 3 / 2 Max. 25 x EN343 PARKA 3 1*	
FIDJI HV	Fluorescent yellow- Navy blue	Reversible body warmer. Zip fastening. 4 pockets. High visibility: Class 2 - Silver colour - Shoulder-belt assembly.	Polyurethan-coated Oxford polyester fabric on 1 side. Quilted polyester taffeta fabric on 1 side. Retro-reflective sewn bands.	S/M/L/ XL/XXL	C € EN ISO 20471 CLASS 2 Max. 25 x	x 10
FREEWAY HV	Fluorescent yellow Fluorescent orange	Jacket with removable sleeves. Collar with polar fleece lining. Knitted cuffs. High visibility: Class 2 - Silver colour - Shoulder-belt assembly. 4 pockets.	Polyester fabric. Quilted polyester Taffeta lining. Sleeves 65% polyester 35% quilted cotton fabric. Retro-reflective sewn bands.	M/L/ XL/XXL	EN ISO 20471 CLASS 2 Max. 25 x	









	®	o ^o	#	title	V	***		
METEOR	Fluorescent yellow	Polo with long sleeves. Contrast collar with button placket. High visibility. Class 3 - Silver colour - Shoulder-belt and parallel assembly.	Piqué stitch 100% polyester 235 g/m². Retro-reflective sewn bands.		Piqué stitch 100% polyester		EN ISO 20471 CLASS 3	
STAR		Long Sleeve T-Shirt. Round collar. High visibility: Class 3 - Silver colour - Shoulder- belt assembly.		XXL/3XL	EN ISO 20471 CLASS 3 Max. 50 x			
OFFSHORE	Fluorescent orange	Polo with short sleeves. Contrast collar with button placket. High visibility: Class 2 - Silver colour - Shoulder-belt and parallel assembly.	100% polyester stich 160 g/m².	M/L/ XL/XXL	√Yn EN ISO 20471	x 10		
COMET	Retro-reflective sewn bands. Short sleeve tee-shirt. Round collar. High visibility: Class 2 - Silver colour - Shoulderbelt assembly. Retro-reflective sewn bands. S/M/L/XL/ XXL/3XL	CLASS 2						



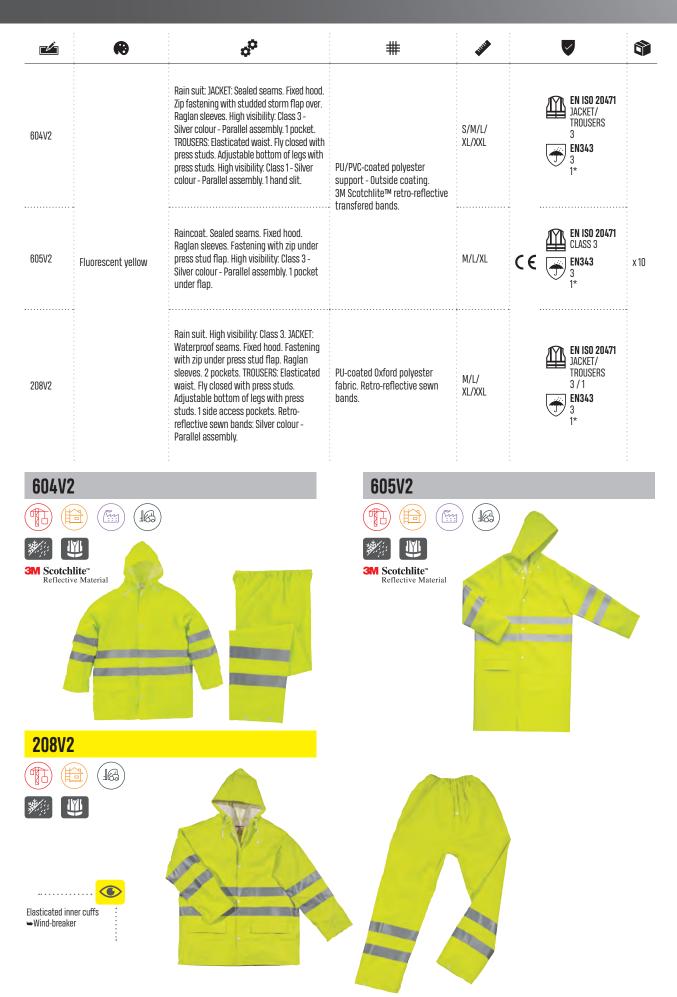








OUTDOOR HIGH VISIBILITY





	æ	o ^c	#	LITTLE	>	
GILP2		Vest. Fastening with velcro band. High visibility. Class 2 - Silver colour - Parallel assembly.	Polyester fabric. Retro-reflective L sewn bands.	e L/XXL	EN ISO 20471 CLASS 2	x 100
GILP4	Fluorescent yellow Fluorescent orange	Vest. Fastening with velcro band. High visibility: Class 2 - Silver colour - Shoulderbelt assembly.			Max. 25 x	X 100
BAUCE2		Shoulder-belt. Fastening with velcro band. Belt and shoulder bands width: 7.5 cm. High visibility: Silver colour - Shoulder-belt assembly.	PU-coated Oxford polyester fabric. Retro-reflective sewn bands.	M	EN13356	x 10
BRASSJA	Fluorescent yellow	Armlet. Fastening with velcro band. Dimensions: 9 cm x 50 cm. High visibility - Silver colour.	PVC-coated Oxford polyester fabric. 3M Scotchlite™ retro- reflective sewn bands.	Adjustable	2	x 50











HIGH VISIBILITY WORKWEAR

	€	o [©]	#	LILLIE	V	\$
M2VHV	Fluorescent yellow- Grey	IWIII 54% COTTON 46% POLYESTE	Twill 54% cotton 46% polyester	S/M/L/XL/ XXL/3XL	EN ISO 20471 JACKET/ JACKET+TROUSER: 2/3	v 10
M2PHV	Fluorescent orange- Grey	Trousers. Elasticated waist on both sides. High visibility: Class 2 - Silver colour. 7 pockets including 1 ruler pocket.	260 a/m² Potro-roflective cown		EN ISO 20471 TROUSERS/ JACKET+TROUSERS 2/3	x10

M2VHV















Fixed badge holder



Covered zips







M2PHV













Fixed badge holder



Triple seams ⇒Increased lifespan



Kneepad pockets

Allows you to insert M2GEN kneepads to work more comfortably on your knees



MAPOC removable pockets sold separately →The necessary tools









Our entire range meets the requirements of standard EN ISO 20471 A1 2016.

Most models are available in orange and yellow, we developed them with the constant concern of the best value for money without compromising on the quality of the materials used.

Laurent Kostrzewa, Body Protection Product Expert



	æ	o ^c	#	LITTLE	V	
PHVE2		Jacket. Elasticated cuffs. High visibility: Class 2 - Silver colour - Shoulder-belt and parallel assembly. 2 pockets.			EN ISO 20471 CLASS 2	
PHPA2	Fluorescent yellow-Navy blue Fluorescent orange-Navy blue	Trousers. Elasticated waist on both sides. High visibility: Class 2 - Silver colour. 5 pockets including 1 ruler pocket.	Twill 80% polyester 20% cotton 230 g/m². Retro-reflective sewn bands.	S/M/L/XL/ XXL/3XL		x 10
PHBE2		Bermuda. Elasticated waist on both sides. High visibility: Class 1 - Silver colour. 5 pockets.			EN ISO 20471 Class 1	

PHVE2

















PHPA2



















PHBE2













TECHNICAL WEAR FORESTRY **A** 260



	•	o [©]	#	juju	V	
EPICEA 3		Cut resistant jacket. Zip fastening. Adjustable cuffs with press studs. 2 pockets.	Twill 60% cotton 40% polyester 290 g/m². Polyester mesh lining with a cut resistant compound.	M/L/ XL/XXL	EN381-11 CLASS 0	
DOUGLAS 3		Cut resistant gaiters. Internal zip opening. Tightening strap with press studs. 1 pocket.		One size		
MELEZE 3	Green-Orange	Cut resistant trousers. Adjustable elasticated waist with internal buttons on both sides. Bottom of legs with zip opening. Preformed knees. 6 pockets including 1 ruler.		M/L/ XL/XXL	EN381-5 TYPE A CLASS 1	x 5
ERABLE 3		Cut resistant dungarees. Zip opening leg hem with preformed knees. Adjustable elasticated waist with internal buttons to both sides. Adjustable elasticated braces. 5 pockets including 1 ruler.				

EPICEA 3





Ventilated back closed with Velcro ⇒Increased breathability for better evacuation of perspiration



DOUGLAS 3











Decorative Retro-reflective tapes DOUGLAS 3 - EPICEA 3 -MELEZE 3 - ERABLE 3





MELEZE 3







→The necessary tools always at hand ERABLE 3 - MELEZE 3

Ventilation via a zip on the back →Increased breathability for better evacuation of perspiration ERABLE 3 - MELEZE 3



ERABLE 3







Buttock reinforcement ⇒Waist reinforcement ⇒Increased lifespan ERABLE 3 - MELEZE 3





CHILL ROOM AND COLD STORE

	•	o [©]	#	LIGHT	lacksquare	
NORDLAND	Navy blue Grev	Parka. Waterproof seams. Removable hood. Collar with polar lining for optimal comfort. Fastening with double zip under press stud storm flap. Adjustable waist and bottom with elastic drawstring. 7 pockets.	Polyurethane-coated Oxford polyester fabric. Quilted	S/M/L/XL/ XXL/3XL	C € EN342 0.358 m².K/W (B) 3	x 5
ICEBERG		Warm Salopette. Waterproof seams. Adjustable waist with elastic drawstring. Adjustable braces. Preformed and reinforced knees. 5 pockets.	polyester Taffeta lining.		X	

NORDLAND













Insulating textile complex ⇒A true bulwark from extreme cold



Fixed badge holder included



Decorative retro-reflective tapes NORDLAND - ICEBERG



Wind-proof mitten →Maintains heat







ICEBERG













Kidney protector →Perfect protection of the lower back against the cold



Pockets with waterproof zip



Storm flaps to bottom of legs for extra protection against the cold









	•	o ^p	#	HILL	V	*	
LAPONIE II	Navy blue	Parka. Removable hood with padded 3M Thinsulate™ polar fleece lining. Collar with polar lining for optimal comfort. Zip fastening with Velcro closing storm flap. Elasticated waist at the back. 6 pockets.	85% polyester 15% cotton cloth. Quilted polyester Taffeta lining with 3M Thinsulate™ padded.			EN342 0.408 m ² .K/W (B)	
AUSTRAL II		Warm salopette. Adjustable elasticated braces. Bottoms of legs closed with zip under velcro flap. 4 pockets.		M/L/ XL/XXL	`	x 5	
IGLOO II		Overall. Removable hood with padded 3M Thinsulate™ polar fleece lining. Collar with polar fleece lining. Zip fastening with Velcro storm flap over. Elasticated waist at the back. Bottoms of legs closed with zip under Velcro flap. 5 pockets.			EN342 0.373 m ² .K/W (B) 2 X		

LAPONIE II











Insulating textile complex →A true bulwark from extreme cold



Ribbed cuffs

→ Maintains heat

→ Wind-breaker



3M Thinsulate™ wadding Light and very warm LAPONIE II - AUSTRAL II - IGLOO II

AUSTRAL II











Kidney protector →Perfect protection of the lower back against the cold



IGLOO II











Bottom with gusset ⇒Easy dressing





CHILL ROOM AND COLD STORE

	æ	o [©]	#	LIGHT	
KOLDYTOP	Black	Long sleeve raglan t-shirt.	CON polyomida 250/ Coolmov® 50/ plootana	S/M/L/	
KOLDYPANTS	DIACK	Long Johns.	60% polyamide 35% Coolmax® 5% elastane.	XL/XXL	
ALMA	Navy blue Black Orange	Under Shirt. Raglan sleeve with zip Mandarin collar. Designed for next to skin use.	Polyester polar fleece 200 g/m².	S/M/L/XL/ XXL/3XL	x 10
BALTIC	Navy blue	Lightweight Polar fleece Balaclava.	Polyester polar fleece 100 g/m².	One size	

KOLDYTOP















KOLDYPANTS















ALMA

Thermoregulator Lightweight Ergonomic cut

perspiration. Quick drying to give the user maximum



comfort









BALTIC











CHEMICAL RESISTANT - FLAME RETARDANT - ANTISTATIC

	€	o [©]	#	LITTLE	•	V		\$
KOMODO2	Navy blue	2 in 1 parka: Removable jacket. Parka: Waterproof seams. Fastening with zip under velcro flap. Removable jacket: Zip fastening. Knitted cuffs. 3 pockets.	Polyurethane-coated 98% polyester 2% antistatic fibre fabric. 100% flame retardant cotton fixe lining. 100% polyester polar fleece removable lining.	C/M/L/	C€	EN13034 TYPE PB (6) EN IS014116	EN343	
KOMODO2HV	Fluorescent yellow-Navy blue	2 in 1 parka: Removable jacket. Parka: Waterproof seams. Fastening with zip under velcro flap. High visibility: Class 2 - Silver colour - Parallel assembly. Removable jacket: Zip fastening. Knitted cuffs. 3 pockets.	Polyurethane-coated 98% polyester 2% antistatic fibre fabric. 100% flame retardant cotton fixe lining. 100% polyester polar fleece removable lining. Loxy® retro-reflective sewn bands.	S/M/L/ XLXXL/ 3XL/4XL		EN ISO 20471 CLASS 2 EN13034 TYPE PB (6) EN ISO14116	3 EN1149-5	x5
SSVFR	Now blue	Underwear set. Long sleeve tee-Shirt and Long Johns.	50% Aramid knitwear 48% Viscose 2% Antistatic fibre 200 g/m².	S/M/L/ XL/XXL/ 3XL/4XL		EN IS014116	L EN1149-5	x 10
CAFR1 Navy blue	Hood with flap covering shoulders.	· Vicince 7% Anniciatic linte			3/12H/60	\checkmark	x 50	

KOMODO2

















KOMODO2HV















Removable fleece lining →Increased protection from the cold

⇒Use all year round



SSVFR











CAFR1











CHEMICAL PROTECTION OVERALLS

	•	o ^o	#	LIGHT	V	\$
C0600	Green	Chemical protective overall type 3, liquid- tight. Raglan sleeves. Sealed seams. Zip fastening with studded cover flap and Velcro straps. Fixed elasticated hood, elasticated at wrist and ankles.	Polyester support with double	S/M/L/XL/ XXL/3XL	C € EN14805 TYPE 3	x10

C0600









M9200 - ROTOR GALAXY



M9000E A2B2E2K2P3



RUIZ1 ACETATE



PETRO VE766



PROTECTIVE APRONS - WELDERS

	•	o [©]	o * #		\checkmark	
TABNIT		Apron. Adjustment buckle on the neck. Dimensions: 115 cm x 90 cm. Thickness: 0,35 mm.	Nitrile/Vinyl.	0		x 50
TABPU	White	Apron. Elasticated strap with hook. Adjustment buckle on the waist. Dimensions: 115 cm x 90 cm. Thickness: 0,30 mm.	100% polyurethane 355 g/m².		(€ ∏"	x 25
TABLIVE	Green	Waterproof all-purpose apron. Drawstring straps. Dimensions: 110 cm x 75 cm. Thickness: 0,35 mm.	PVC-coated polyester support. Double sided coating.			
TABALPV	White	Apron. Adjustment buckle on the neck. Dimensions: 120 cm x 90 cm. Thickness: 0,30 mm.	100% PVC.	One size		0 0 0 0 0 0 0
TASOUB	Grey	Welder apron with bib. Adjustment buckle on the neck. Sewn split leather strap with plastic bucklet. Dimensions: 90 cm x 60 cm. Thickness: 1,40 mm to 1,60 mm.	Cowhide split leather.	• • • • • • • • • • • • • • • • • • •	C E EN11611 TYPE A1	x 50
MANCHB		Welders over sleeve. with elasticated hems. 40cm length. Sold in Pairs.			CLASS 2	0 0 0 0 0 0 0

TABNIT







TABPU







TABLIVE







TABALPV







TASOUB







MANCHB

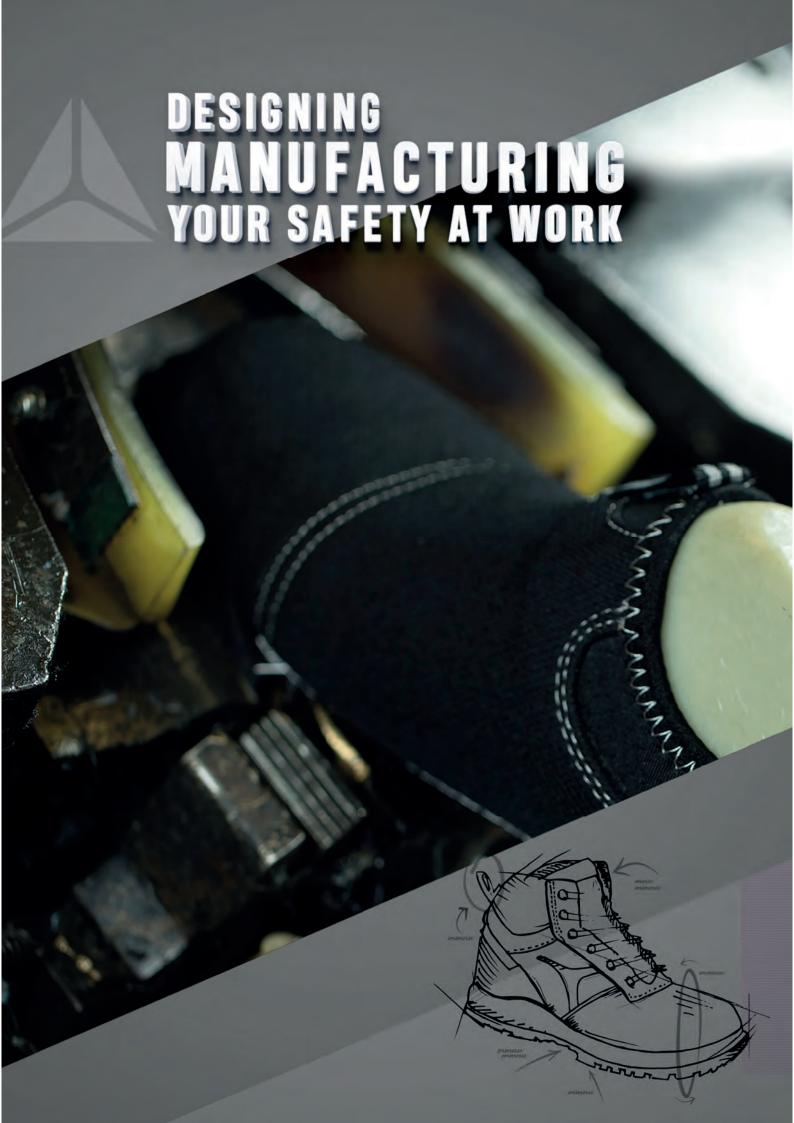












FOOT PROTECTION

SHOES

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- 272 Trek Work
- 274 Comfort Tech
- 276 Waterproof
- 278 Outdoor
- 279 Pro Tech
- 280 X-Large Composite
- 281 Classic Industry
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- 286 Classic Industry Classic +
- 290 Sportswear
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BOOTS

- 302 Winter Boot
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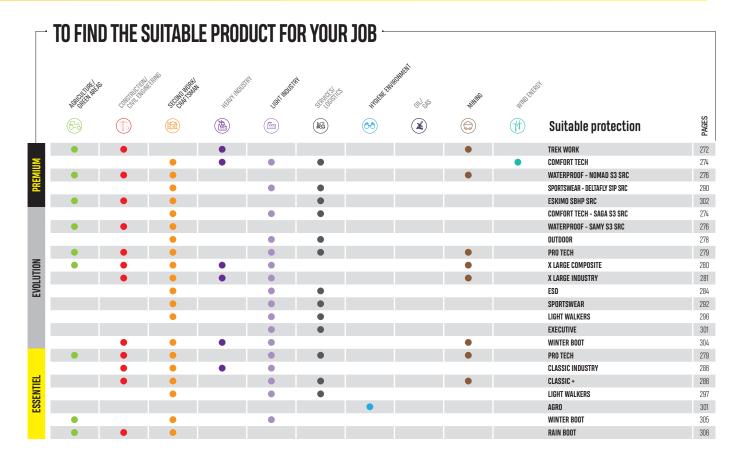
ACCESSORIES

- 307 Soles Laces Socks
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FOOT PROTECTION



HELP WITH CHOICE



RANGES















	HEAVYWORKS							
	TREK WORK COMPOSITE		RT TECH Posite	WATERPROOF COMPOSITE	OUTDOOR PROTECH	X LARGE INDUSTRY COMPOSITE NO COMPOSITE	CLASSIC +	CLASSIC Industry
Material	PU / NITRILE RUBBER	PU / TPU	PU / RUBBER	PU / PU	PU / PU	PU / PU	PU / PU	PU / PU
Advantages	Ladder grips Flex-Zone for increased flexibility Slip-resistant cleated outsole	Lightness Comfort TPU outsole resistance to hydrocarbon <0°C (CONCO) CARAVELLE S:	o abrasion, is and cold RDE S3 -	100% waterproof Deltatex membrane TPU Back reinforcement for a high wear protection and lifespan (NOMAD S3 SRC) PU bumper protection Staples specially designed for an optimal traction and a best slip- resistance on all slippery surfaces	• Ladder grips • V STAB SYSTEM • Flex-Zone	Areas of integrated bending (PANOFLEX® system) Shock absorber Available in ESD (SAULT2 S3 ESD)	• Lifespan and comfort	Lifespan and comfort JUMPER2 S3 FUR / JUMPER2 S3 FUR HC PU properties resistant to -30°C
Performances	SRC Hro Hi Ci	SRC	SRC HRO	SRC Wr Hi Ci	SRC	SRC	SRC	SRC















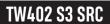




			LIGHTWORKS				BOOTS
	SWEAR Posite	COMPOSITE	LIGHT WALKERS COMPOSITE	NO Composite	EXECUTIVE	AGRO	ESKIMO SBHP SRC
PU / RUBBER	PHYLON / RUBBER	PU / PU	PU MONO	DENSITY	PU MONO DENSITY	PU / PU	COMPOSITE
Midsole for effective cushing to (0-SPIRIT / D-STAR) Phylon (DELTAFLY/DELTASPO) Rubber outsole for improve Crampon design specially of the component of the com	RT/BROOKLYN/MANHATTAN) ed abrasion resistance designed for optimum grip	Upper Mesh (ASTI S (SUMMER STP) for b Available in ESD ve Upper in canvas fo XL large sole for op	r more lightness (AROI	GE S1P) or knitted ot NA S1)	Non-metallic Lightness and flexibility	• Microfibre upper	• Overshoes and soles PU properties resistant to -30°C
	RC RO		SRC		SRC	SRC	SRC

- SHOES TREK WORK



























COMPOSITE



TW302 S3 SRC



→Time saving











NON METALLIC

→ Compatible with security checks (metal detectors)



Composite toe cap 200j

Lightweight and less fatigue

Non conductive hot and cold



Anti-perforation composite protective

⇒Increased flexibility at the metatarsal level





The design and comfort of a trekking shoe with high tech performance of a safety shoe.

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TW402 S3 SRC	Dlock	Upper: Full grain leather, S3 water resistant treatment, with premolded front and back reinforcements. Lining: Polyamide absorbing. Insole:	39 → 48	<i>((</i>	EN ISO 20345 S3 HRO HI CI	770 g	v.E
TW302 S3 SRC	Black	Removable preformed - Polyester on PU. Midsole: Cemented - PU with Panoshock® shock absorber. Outsole: Rubber Nitrile. Non metallic footwear.	39 → 48	7.7	SRC	740 g	χo





Rear reinforcement

- ⇒Stabilisation of the foot when walking

 → Reinforced protection on the rear
- of the shoe



PANOSHOCK® system

⇒Decreased propagation of shock



⇒Comfort and easy drying



Pre-moulded bumpers provide extra protection from the front and the back

This PU/ RUBBER NITRILE SOLE has been developed with:

- 1- Areas of attachment, allowing secure stabilisation on the ladder rungs.
- 2-Large cleats for soft flooring, meeting SRC standards, for reinforced grip on all types of indoor and outdoor surfaces.
- 3- A rubber nitrile outsole that guarantees good resistance to abrasion and contact heat (HRO = 300°C for 1 minute).



Our goal is to meet the most extreme working conditions. These highly technical and functional shoes allow you to reach unequalled levels of





comfort

Designed for the most demanding workers in terms of comfort.

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CONCORDE S3 SRC Brown		Upper: Calfskin full grain leather, S3 water resistant treatment. Lining: Air Mesh 3D polyester. Insole: "Deltaplus	36 → 48		EN ISO 20345 S3	762 g	
CARAVELLE S3 SRC	Black	Air Flow System" - Removable premolded - Polyester on PU. Outsole: Injected - PU. Outsole: TPU. Non-metallic footwear.	30 7 40	C€	SRC	744 g	x 5
SAGA S3 SRC	Beige Black	Upper: Nubuck leather, S3 water resistant treatment. Lining: Polyester. Insole: Removable - polyester on EVA. Outsole: Cemented - PU/Rubber. Non-metallic footwear.	39 → 48	4917	EN ISO 20345 S3 HRO SRC ASTM F2413 M I/75 C/75 PR SD	842 g	









RUBBER SOLE ⇒Increased durability



COMFORT TECH:

A full-grain leather upper and a specially designed performance oriented sole:

- 1- The Wide Fitting is suitable for all types of feet and provides a better fit.
- 2- Full grain cowhide leather offers great flexibility in movement as does the TPU outsole.
- 3- "Delta Plus Air Flow System" is a new technology, integrated into our sockliner, allowing for excellent ventilation of the foot and great comfort all day





At the heart of this premium collection, our team has developed a major concept "The Comfort" which translates into 4 axes (the shape, the leather, the flex, the insole). Trying it is adopting it!

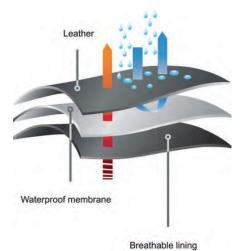




The protection also goes through an innovative concept of impermeability and water resistance. The DELTA-TEX™ membrane protects you from the weather while wicking away moisture.

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NOMAD S3 SRC	Brown Black	Upper: Full grain leather, S3 water resistant treatment. Lining: DELTA-TEX™ waterproof polyester membrane. Insole: Removable - polyester on EVA. Midsole: Injected - Dual density PU. PU bumper protection. Non metallic footwear.	39 → 48	<i>C C</i>	EN ISO 20345	812 g	v.E
SAMY S3 SRC	Black	Upper: Full grain leather, S3 water resistant treatment. Lining: DELTA-TEX™ waterproof polyester membrane. Insole: Removable preformed - Polyester on EVA. Outsole: Injected - Dual-density PU. PU bumper protection.	39 → 48		S3 WR HI CI SRC	844 g	χŋ







It offers a water-proofing greater than 10,000 mm/cm² (ISO811). Impermeability is measured by placing this membrane under a tube of water (water column). The minimum water height at which the first drops of water pass through this membrane represents its impermeability.



Rear reinforcement

- ⇒Stabilisation of the foot when walking
- Reinforced protection on the rear of the shoe



⇒Softer and more comfort



Outsole with PU protection bumper Reinforced protection of the forefoot





The 4 nylon bands at the instep have two main functions:

1- They offer a reinforced support of the foot 2- Due to the retro-reflective strips, they increase the visibility for even more security.



The weather, work and the outdoor business sector leads you to face harsh conditions. That is why we have developed this range whose "waterproof" membrane protect you perfectly from bad weather.

The nature sports and walking shoe dedicated to safety. Comfortable, technical and performance, the shoes of OUTDOOR range will take you far!

	•	o ^o	J	•	V	<u></u>	
OHIO3 S3 SRC	Black	Upper: Full grain leather, S3 water resistant treated. Lining: Polyester. Insole: Removable preformed - Polyamide on EVA. Outsole: Injected - Dual density PU. Non metallic footwear.			EN ISO 20345 S3 SRC	684 g	
AURIBEAU3 S1P SRC	O Dii-	Upper: Split suede leather and mesh. Lining: Polyester. Insole:	36 → 47	C€	C € EN ISO 20345	640 g	х5
PERTUIS3 S1P SRC	Green-Black	Removable preformed - Polyamide on EVA. Outsole: Injected - Dual density PU. Non metallic footwear.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	S1P SRC	622 g	

OHIO3 S3 SRC





















- 2- V STAB SYSTEM
- 3- Lateral ladder grips
- 4- Cleats SRC standards
- ➡1- Foot motion improved
- ➡2- Reinforced control of foot torsion
- ➡3- Secured stabilisation on ladder rungs
- ➡4- Good grip on all types of indoor and outdoor surfaces



(metal detectors)

NON METALLIC ⇒Compatible with security checks



Composite toe cap 200j

- →Lightweight and less fatigue
- ⇒Non conductive hot and cold



Anti-perforation composite protective midsole

►Increased flexibility at the metatarsal level

AURIBEAU3 S1P SRC



















PERTUIS3 S1P SRC







A professional range combines resistance, comfort and lightness.

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PHOENIX S3 SRC		Upper: Pigmented split leather, S3 water resistant treatment. Lining: Polyamide mesh. Insole: Removable preformed - Polyamide on EVA.			EN ISO 20345	590 g	
PHOCEA S3 SRC		Outsole: Injected - PU bi-density. Non metallic footwear.			SRC	570 g	
PROTON S1P SRC	Black	Upper: Pigmented split leather. Lining: Polyamide mesh. Insole: Removable preformed - Polyamide on EVA. Outsole: Injected - PU bi-density. Non metallic footwear.	36 → 47	C€	EN ISO 20345 S1P	594 g	x 5
PRISM S1P SRC		Upper: Pigmented split leather. Lining: Polyamide mesh. Insole: Removable preformed - Polyamide on EVA. Outsole: Injected - PU bi-density. Non metallic footwear.			SRC	590 g	

PHOENIX S3 SRC

PHOCEA S3 SRC





NON METALLIC → Compatible with security checks (metal detectors)





Composite toe cap 200j

- ⇒Lightweight and less fatigue
- ➡Non conductive hot and cold



Anti-perforation composite protective midsole

⇒Increased flexibility at the metatarsal level

PROTON S1P SRC





COMPOSITE









➡1- Foot motion improved

outdoor surfaces

→2- Reinforced control of foot torsion

⇒3- Secured stabilisation on ladder rungs

→4- Good grip on all types of indoor and











DUAL DENSITY PU OUTSOLE 1- Flex zone

2- V STAB SYSTEM

3- Lateral ladder grips

4- Cleats, SRC standards







PRISM S1P SRC



X-LARGE COMPOSITE

X-LARGE COMPOSITE is the perfect answer for trades where RESISTANCE and PROTECTION are essential and the concept of COMFORT a must.

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SANTANA S3 SRC	0 0 0 0	Upper: Buffalo smooth leather , S3 water resistant treatment.		0 0 0		720 g	
MAESTRO S3 SRC	Black	Lining: Polyester. Insole: Removable preformed - Polyamide on EVA. Outsole: Injected - Dual-density PU with bump cap. Non	39 → 48	C€	EN ISO 20345 S3 CR SRC	670 g	x 5
CALYPSO S3 SRC	• •0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	metallic footwear.		0 0 0 0	OHO	856 g	1 / 1 1 8 8

Areas of integrated bending (PANOFLEX® system) ⇒Less fatigue at the end of the day →More comfortable walking

SANTANA S3 SRC















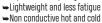




NON METALLIC **⇒**Compatible with security checks (metal detectors)



Composite toe cap 200j →Lightweight and less fatique





Anti-perforation composite protective midsole

►Increased flexibility at the metatarsal level



Wide fitting (mondo 11) →Hard wearing



SHOCK ABSORBER ⇒Dual density PU outsole

⇒Decreased propagation of shock waves



Outsole with PU protection bumper

⇒Reinforced protection of the forefoot

MAESTRO S3 SRC



CALYPSO S3 SRC





- ➡1- Reinforced adhesion on loose ground
- ⇒2- Secured stabilisation on ladder rungs

X-LARGE INDUSTRY



Symbol of comfort, protection and durability, the X-LARGE INDUSTRY range meets the toughest working environments.

	•	o c	LITTLE	•	V	<u></u>	
CADEROUSSE S3 SRC	Block	Upper: Full grain leather, S3 water resistant treatment. Lining: Acrylic furlined. Insole: Preformed removable - Felt. Outsole: Injected - Dual-density PU with bump cap.			EN ISO 20345 S3 CI SRC	852 g	
MONTBRUN S3 SRC	Black	Upper: Pigmented split leather, S3 water resistant treatment. Lining: Polyamide. Insole: Removable preformed - Polyamide on EVA. Outsole: Injected - Dual-density PU with bump cap.	39 → 48	C€	EN ISO 20345 S3 SRC	702 g	x 5
CAROMB S1P SRC	Grev-Blue	Upper: Suede split leather and polyamide nylon. Lining: Polyamide. Insole: Preformed removable - Polyamide on EVA.			EN ISO 20345	772 g	
MAZAN S1P SRC	oley-blue	Outsole: Injected - Dual-density PU with bump cap.	0 0 0 0 0		S1P SRC	682 g	

CADEROUSSE S3 SRC

















Wide fitting (mondo 11) → Hard wearing



Retro-reflective tapes →Increased visibility

















DUAL DENSITY PU OUTSOLE 1- Hear wearing outsole with toe and heel grip 2- Lateral ladder grips

- ➡1- Reinforced adhesion on loose ground
 - ⇒2- Secured stabilisation on ladder rungs



for better safety



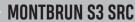
Outsole with PU protection bumper

- ⇒Reinforced protection
- of the forefoot



Areas of integrated bending (PANOFLEX® system)

- →Less fatigue at the end of the day
- →More comfortable walking





















SHOCK ARSORBER

- ightharpoonup Dual density PU outsole
- →Decreased propagation of shock waves

CAROMB S1P SRC















MAZAN S1P SRC



- SHOES

X-LARGE INDUSTRY



SAULT2 S3 SRC























Retro-reflective tapes

→Increased visibility for better safety



Outsole with PU protection bumper

Reinforced protection of the forefoot



- SHOCK ABSORBER

 Dual density PU outsole

 Decreased propagation of shock waves



Areas of integrated bending (PANOFLEX® system)

→Less fatigue at the end of the day

→More comfortable walking





Symbol of comfort, protection and durability, the X-LARGE INDUSTRY range meets the toughest working environments.

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SAULT2 S3 SRC	Black	Upper: Pigmented split leather, S3 water resistant treatment. Lining: Polyamide. Insole: Removable preformed - Polyamide on EVA. Outsole: Injected - Dual-density PU with bump cap.	39 → 48	C € S3 SRC	736 g	x 5



DUAL DENSITY PU OUTSOLE

- 1- Hear wearing outsole with toe and heel grip 2- Lateral ladder grips
- 1- Reinforced adhesion on loose ground
- 2- Secured stabilisation on ladder rungs

Wide fitting (mondo 11):

The footwear is suitable for wide and strong feet.

Padded collar and tongue with a reinforced leather tongue provide better protection from rubble and improved comfort.

This form has been designed to meet all the needs of the construction and heavy industry sectors. Indeed, the design of the sole protects the user from shocks, either at the front of the foot (bumper) or on the sides (side bumper).

The recognised success of the SAULT2 model is linked to the durability that is widely appreciated by all users in the construction and industry sectors.



It is the study of the needs of the Civil engineering/Construction sector which led us to develop this iconic DELTA PLUS product whose strengths are extra large footwear (XL) and a maximum durability. Often copied, never equalled!

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SAULT2 S3 SRC ESD	Black	Upper: Pigmented split leather, S3 water resistant treatment. Lining: Polyamide. Insole: Removable preformed - Polyamide on EVA. Outsole: Injected - Dual-density PU with bump cap.	39 → 48	<i>CC</i>	EN ISO 20345 S3 SRC EN61340 CLASSE 1	734 g	x 5
VIAGI S1P SRC ESD	Black-Red	Upper: Suede split leather and polyester mesh. Lining: Polyester. Insole: Removable preformed - Polyester on EVA. Outsole: Injected - Dual-density PU. Non metallic footwear.	36 → 48	Ce	EN ISO 20345 S1P SRC EN61340 CLASSE 1	610 g	x 10

SAULT2 S3 SRC ESD

























VIAGI S1P SRC ESD























What does the regulation say?

Areas with potentially explosive atmospheres called ATEX and the protection of workers against the risks of explosion are regulated by 1999/92/EC Directive.

The use of a qualified footwear dissipating electrostatic charges, is recommended in these areas as part of a comprehensive system of prevention of explosion risk.

Requirements for the design, implementation of systems controlling electrostatic discharge (ESD) that can damage electronic components are defined by the EN61340-5-1 standard.

The device said ESD must offer resistance between $10^5 \Omega$ and $3.5 \cdot 10^7 \Omega$).

To be used in an ESD system, a shoe must at least be qualified according to EN61340-4-3 standard and offer resistance less than $10^8 \Omega$ (and greater than $10^5 \Omega$), it is then dissipative.

SAULT ESD and **VIAGI ESD** perform particularly well because they have not only reached a maximum resistance between 10⁵ and 3.5 10⁷ (sigle ohm), but **these tests were conducted under severe restraints: the climatic environment class number 1 (high drought: 15% humidity rate).**

Due to their low resistance level, **SAULT ESD** and **VIAGI ESD** are a particularly efficient part of global grounding system (gloves, clothing, carpet, seat, etc ...).

Thus, their performances help this system to achieve the level of resistance required for 🏟 compliance.



RISK OF ELECTROSTATIC DISCHARGE (ESD*)

The static electricity on the operators must be controlled in the following application areas, because it can:



- > Generate electrostatic sparks that can ignite explosive atmospheres: plastic industry, mining, oil and gas industry, chemical industry ...
- > Damage sensitive equipment against electric shock: various electronic industries ...
- > Generate particles that may be deposited on the painting: car industry, house appliances ...
- * Electrostatic Discharge

CLASSIC INDUSTRY - CLASSIC +

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COBRA4 S3 SRC		Upper: Pigmented split leather, S3 water resistant treatment. Lining: Polyester. Insole: Removable premolded - Polyamide on EVA. Outsole: Injected - PU/Rubber nitrile. • Para aramid seams. • Flap. Fastening with velcro band.	36 → 48		EN ISO 20345 S3 HRO HI SRC EN ISO 20349-2 WG	628 g	
MIWA S3 M SRC	Black	Upper: Pigmented Buffalo leather 1.8-2 mm, S3 water resistant treatment. Lining: Polyamide mesh. Insole: Removable - Polyamide on EVA. Outsole: Injected - Dual-density PU. • Integrating a protection flap with a pre-molded part to the metatarsals.	36 → 47	C€	EN ISO 20345 S3 M SRC	650 g	x 10
GARGAS II S1P SRC		Upper: Pigmented split leather. Lining: Polyamide absorbing. Insole:	OE . /O		EN ISO 20345	644 g	
GOULT II S1P SRC	•0 0 0 0 0 0 0 0 0 0 0 0 0	Removable premolded - Polyester on EVA. Outsole: Injected - Dualdensity PU.	35 → 48		S1P SRC	636 g	0 0 0 0 0 0 0

COBRA4 S3 SRC







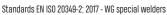












- ⇒Protection against thermal risks and projections
- ⇒Specially designed for any multi-sector welding activity

Two elastics inside for closer fitting protection

- →Improved hold on the kick of the foot Leather collar and para-aramid thread
- ➡Enhanced heat protection





MIWA S3 M SRC













- ⇒Good resistance to abrasion and contact heat
- ⇒Guaranteed insulation of the foot in the shoe against heat (HI: the temperature inside must not exceed 22°C after 30 minutes in a sand bath
- ⇒Optimum adhesion on all types of surfaces

Velcro closure

- ⇒Fast opening
- ⇒Protection against projections

Integrated flexion zones

- ➡Increased flexibility at the metatarsal level
- →Work facilitated whatever the position

GARGAS II S1P SRC

























GOULT II S1P SRC



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TANGARA S1P SRC	Grey-Yellow	Upper: Ventilated suede split leather. Lining: Polyamide	36 → 47		630 g	v.10
RIMINI III S1P SRC	Beige-Yellow Navy blue-Orange	absorbing. Insole: Removable - Polyamide on EVA. Outsole: Injected - Dual-density PU.	30 → 4/	EN ISO 20345 S1P	610 g	x 10
FENNEC3 S1P SRC	0	Upper: Suede split leather. Lining: Polyamide absorbing. Insole:	36 → 45	C€ ^{SRC}	564 g	x 10
FENNEC3 S1 SRC	Grey	Fixed - Polyamide on EVA. Outsole: Injected - Dual-density PU.	46 → 47	EN ISO 20345 S1 SRC	474 g	x 5

TANGARA S1P SRC

















RIMINI III S1P SRC

























FENNEC3 S1P SRC























FENNEC3 S1 SRC



















CLASSIC INDUSTRY

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JUMPER2 S3 FUR HC SRC		Upper: Pigmented leather croupon, S3 water resistant treatment. Lining: Polyester fur. Insole: Removable preformed - Felt. Outsole: Sole:	36 → 48	EN ISO 20345 S3 CI	690 g	x 5
JUMPER2 S3 FUR SRC		Injected - Dual density PU. • PU formula sole keeping its properties until -30°C		SRC	658 g	
JUMPER2 S3 BUMPER SRC	Black	Upper: Pigmented split leather, S3 water resistant treatment, with TPU toe cap. Lining: Polyamide mesh. Insole: Fixed - Polyamide on EVA. Outsole: Injected - Dual-density PU.	$36 \rightarrow 45$ $46 \rightarrow 48$	C € EN ISO 20345	660 g	x 10 x 5
JUMPER2 S3 SRC		Upper: Pigmented split leather, S3 water resistant treatment. Lining:		S3 SRC	664 g	
JET2 S3 SRC		Polyamide mesh. Insole: Fixed - Polyamide on antibacterial latex. Outsole: Injected - Dual-density PU.	36 → 45 46 → 47		644 g	x 10 x 5

JUMPER2 S3 FUR HC SRC



























JUMPER2 S3 FUR SRC

















JET2 S3 SRC

JUMPER2 S3 BUMPER SRC



















JUMPER2 S3 SRC











METAL



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JUMPER2 S1P SRC	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Upper: Pigmented split leather. Lining: Polyamide mesh. Insole: Fixed - Polyamide on EVA. Outsole: Injected - Dual-density PU.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		EN ISO 20345 S1P	664 g	
JET2 S1P SRC	Dlook		36 → 45	~	SRC	638 g	x 10
JUMPER2 S1 SRC	Black		46 → 47	6	EN ISO 20345	596 g	x 5
JET2 S1 SRC	60 0 0 0 0		00 0 0 0 0		SRC	564 g	

JUMPER2 S1P SRC

JET2 S1P SRC





















JUMPER2 S1 SRC



















JET2 S1 SRC





- SHOES **SPORTSWEAR**



	•	o ^c	LIGHT		\checkmark	<u></u>	
DELTA FLY S1P SRC	Grey-Green	Upper: Matryx® technology consisting of PU-coated polyamide yarns, polyester monofilament yarns, reflective yarns and Kevlar® areas. Lining: Polyester. Insole: Removable preformed - Polyester on EVA. Outsole: Cemented - EVA/Rubber Nitrile. Non metallic footwear.	39 → 47	CE	EN ISO 20345 S1P HRO SRC	520 g x	5

DELTA FLY S1P SRC













COMPOSITE



NON METALLIC **⇒**Compatible with security checks (metal detectors)



Composite toe cap 200j ⇒Lightweight and less fatigue



Anti-perforation composite protective midsole —Increased flexibility at the metatarsal level





MATRYX® is a high performance technical complex made from high tenacity polyamide and KEVLAR® thread. This unique and patented French technology enables specific areas to provide efficient solutions in terms of ergonomics and lightness.



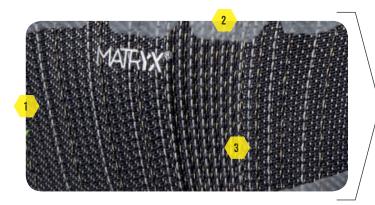
RUBBER NITRILE OUTSOLE

Good resistance to abrasion and contact heat (HRO = 300°C for 1 minute) Optimum adhesion

WELDED SOLE WITH PHYLON MIDSOLE (EVA)

Incomparable comfort and lightness





Unique MATRYX® Technology:

1- Multizone woven upper : brings extreme lightness and flexibility to the upper material as well as very good ventilation. This complex fabric does not deform. 2- Reflective threads: allow increased visibility.

3- Kevlar® thread : provide excellent support around the instep in any position and increased resistance to abrasion.

4- Seamless upper for optimal comfort.



Our goal is to combine the best of sport and safety in order to push performance limits. It is due to our partnership with the French company Chamatex, which patented the MATRYX® Technology, that we have developed this innovative premium product. The most of MATRYX®: the option of choosing, according to our needs, predefined strategic function zones during weaving. This construction of the upper material reduces by approximately 50% the weight of our upper material. MATRYX® is a unique technology and DELTA FLY is unique in the world of PPE.

A Sport attitude for many professional activities.

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MANHATTAN S3 SRC	Black-Yellow	Upper: Suede split leather (cowhide), S3 water resistant treatment with front rubber reinforcement. Lining: Polyester non-woven and			EN ISO 20345	565 g		
BROOKLYN S3 SRC	Black-Orange	knitted mesh. Insole: Removable preformed - Polyamide on EVA. Outsole: Cemented - Phylon. Outsole: Rubber. Non metallic shoe.	39 → 47	C€	S3 HRO SRC	535 g	x 10	
DELTA SPORT S1P SRC	Blue-Yellow Black-Red	Upper: Injected PU on mesh. Lining: Polyester. Insole: Removable preformed - Polyester on EVA. Outsole: Cemented - Phylon. Outsole: Rubber Nitrile. Non metallic footwear.		(6		EN ISO 20345 S1P HRO SRC	482 g	

MANHATTAN S3 SRC

BROOKLYN S3 SRC

















Quilted collar and tongue

➡Reduction of pressure points at the lacing







NON METALLIC →Compatible with security checks (metal detectors)











Outsole with protection rubber toe

bumper ⇒Reinforced protection of the forefoot



Composite toe cap 200j ⇒Lightweight and less fatigue





⇒Confort et légèreté incomparables

Anti-slide on the inside of the shoe

⇒Improved heel hold

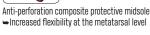
→Reinforced rear section



RUBBER NITRILE OUTSOLE

- ⇒Good resistance to abrasion and contact heat (HRO = 300°C for 1 minute)
- ⇒0ptimum adhesion

WELDED SOLE WITH PHYLON MIDSOLE (EVA) →Incomparable comfort and lightness



























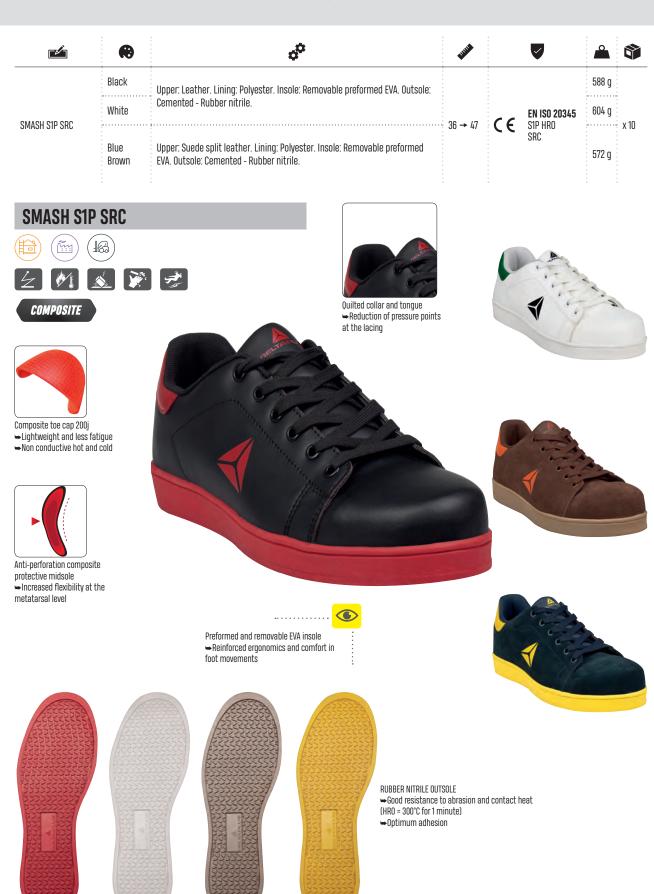
PU upper injected on Mesh

- ⇒Increased resistance of the upper material to
- ightharpoonupImproved foot support thanks to the "Cage" concept
- ⇒Excellent ventilation with Mesh





A Sport attitude for many professional activities.



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D-SPIRIT S3 SRC	··· Black	Upper: Leather, S3 water resistant treatment. Lining: Polyester. Insole: Removable - Polyester on EVA. Outsole: Cemented - PU/Rubber. Non metallic footwear.	36 → 47	0 0 0 0 0 0 0 0 0		EN ISO 20345 S3 HRO SRC	540 g	
D-SPIRIT S1P SRC	DIGUK	Upper: Leather/mesh. Lining: Polyester. Insole: Removable - Polyester on EVA. Outsole: Cemented - PU/Rubber. Non metallic footwear.	38 → 47	C€	EN ISO 20345	498 g	x 5	
	Blue-Grey	upper. Suede Spiit leatrier. Lilling. Polyester. Insole. Removable - Polyester on	36 → 47		S1P HRO SRC	514 g		
	Beige		38 → 47			534 g		



D-SPIRIT S1P SRC



metatarsal level















D-STAR S1P SRC













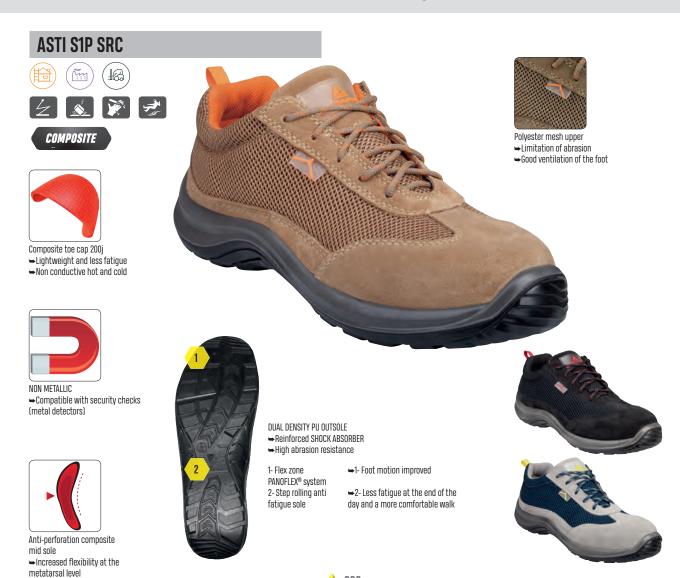








A lightweight and ventilated system make these shoes particularly suitable for professional activities requiring comfort.





	•	o [©]	LIGHT	V	<u></u>					
ASTI S1P SRC	Beige Grey-Blue Black	Upper: Suede split leather and polyester mesh. Lining: Polyester. Insole: Removable premolded - Polyester on EVA. Outsole: Injected - Dual- density PU. Non metallic footwear.	36 → 48	26 -> 40	36 → 49	26 -> 40	00 . /0		544 g	
VIRAGE S1P SRC	Grey-Green Black-Red	Upper: Suede split leather and polyester mesh. Lining: Polyester. Insole: Removable preformed - Polyester on EVA. Outsole: Injected - Dual-density PU. Non metallic footwear.		EN ISO 20345 SIP SRC	612 g	x 10				
COMO S1P SRC	Navy blue Brown-Beige Black-Fushia	Upper: Suede split leather and polyester mesh. Lining: Polyester. Insole: Removable premolded - Polyester on EVA. Outsole: Injected - Single density PU.	$39 \rightarrow 48$ $39 \rightarrow 48$ $35 \rightarrow 43$		508 g					
SUMMER S1P SRC	Blue-Yellow Grey-Orange	Upper: Polyester and cotton. Insole: Removable preformed - polyester on EVA. Midsole: injected - Single density PU.	35 → 48		440 g					

VIRAGE S1P SRC





















ARCH SUPPORT SYSTEM

→ Reinforced stability in the supports ⇒Good twist control



DUAL DENSITY PU OUTSOLE

⇒Reinforced shock absorption ⇒Good resistance to abrasion

1- Flex zone PANOFLEX® system 2- Step rolling for optimal comfort during movement

➡1- Foot motion improved

→2- Less fatigue at the end of the day and a more comfortable

COMO S1P SRC



























SUMMER S1P SRC



METAL













- SHOES LIGHT WALKERS



	•	o [©]	ijiji	\triangleleft	
MIAMIXL S1P SRC	Black	Upper: Suede split leather combined with polyester and cotton. Lining: Polyester. Insole: "Deltaplus Air Flow System" - Removable premolded - Polyester on PU. Midsole: injected - Single density PLI. Non metallic fnotwear	36 → 48	C € SIP SRC	540 g x10





If you are looking for lightness, flexibility and comfort, the Light Walkers range will meet these expectations throughout the day!



The concept of the MIAMI is a simple, innovative idea, with a very good price-comfort ratio for a unique safety shoe: 400q of barefoot

This concept now has a family to meet different user needs: MIAMI, SUMMER, COMO, ARONA and MIAMI X-LARGE.



Wide Fitting (mondo 10):

The footwear is suitable for all foot shapes. The shape has been specially designed to meet the sizes and measurements of the average European foot.



"Delta Plus Air Flow system" insole technology Increased breathability and optimal comfort





Comfortable at work and at home, this is what makes MIAMI a unique product. Responding to the needs of the manufacturing trades was our brief to design a range of safety footwear that is worn as if you were at home.

A lightweight and ventilated system make these shoes particularly suitable for professional activities requiring comfort.

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MIAMI S1P SRC	Grey-Navy blue Black	Upper: Polyester and cotton. Insole: Removable preformed - polyester on EVA. Midsole: injected - Single density PU.	35 → 48		EN 100 202/ E	442 g	
MIAMI S1P CAMO SRC	Khaki	,		C€	EN ISO 20345 S1P SRC	460 g	x 10
ARONA S1P SRC	Beige Black	Upper: Canvas. Insole: Removable preformed - polyester on EVA. Midsole: injected - Single density PU.			JNU	440 g	



AGRO - EXECUTIVE



	•	o [©]	JULI		>	<u></u>		
MIAMI S2 SRC		Upper: Microfibre/PU. Insole: Removable preformed - polyester on EVA. Midsole: Injected - Single density PU. • Water resistant upper in microfibre • Machine wash up to 30° C, easy to maintain	35 → 48		EN ISO 20345 S2 SRC	402 g	x 10	
ROBION3 S2 SRC	White	Upper: Microfiber Lining: Polyamide. Insole: Preformed removable - Polyester	35 → 47	5 → 47 C €		468 g		
MAUBEC 3 SBEA SRC		on EVA. Outsole: Injected - PU bi-density. • Water resistant upper in microfibre • Machine wash up to 30° C, easy to maintain • Absorbent non woven lining for quick dry			EN ISO 20345 SB A E SRC	524 g	x 5	
BRISTOL S3 SRC		Upper: Derby light pigmented grain leather. Lining: Polyamide. Insole: Removable - EVA foam. Outsole: Mono density PU. Non metallic shoe.	39 → 48	30 → //8		EN ISO 20345 S3 SRC	494 g	v.10
RICHMOND S1 SRC	- Black	Upper: Oxford light pigmented grain leather. Brogue shoe. Lining: Polyamide. Insole: Removable - EVA foam. Outsole: Mono density PU. Non metallic shoe.		•	EN ISO 20345 S1 SRC	486 g	x 10	

MIAMI S2 SRC















ROBION3 S2 SRC













MAUBEC 3 SBEA SRC













BRISTOL S3 SRC

















NON METALLIC



→Compatible with security checks (metal detectors)



Composite toe cap 200j

- ⇒Lightweight and less fatigue ➡Non conductive hot and cold

Anti-perforation composite protective midsole

- ➡Increased flexibility at the metatarsal level
- ► Except RICHMOND S1

RICHMOND S1 SRC



















Polyamide lining and foam

- ⇒Softer and more comfort
- EVA insole
- Reinforced plantar comfort throughout the day
- Leather upper, S3 treated
- →Water repellent upper (Bristol S3 only)





- **⇒**Good cushioning
- ⇒Abrasion resistance
- ➡Certified SRC anti-slip resistant

Quilted collar

⇒Great freedom of movement

- BOOTS

WINTER BOOT

COMPOSITE - 100% DELTA-TEX WATERPROOF MEMBRANE



ESKIMO SBHP SRC





















NON METALLIC **⇒**Compatible with security checks (metal detectors)



Composite toe cap 200j

Lightweight and less fatigue

Non conductive hot and cold



Anti-perforation composite protective midsole ⇒Increased flexibility at the metatarsal level



Felt insole ⇒Better insulation against the cold



Safety boot specially designed for the cold ⇒Suitable for use in outdoor cold environments but also in cold rooms

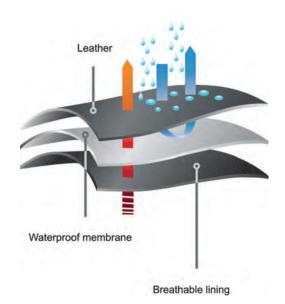


Canadian WATERPROOF boot combining a pre-moulded PU pad and an impermeable membrane

- ⇒Resistance to extreme cold and snow ⇒Moisture protection

ESKIMO will be able to protect you safely in all weather conditions.

	æ	o [©]	JULI	V	<u>^</u>	\$
ESKIMO SBHP SRC	Black	Canadian safety boot. Upper: PU and Polyester. Lining: SNOWTEX™ fur-lined and DELTA-TEX™ waterproof polyester membrane + fur-lined polyester collar. Insole: Removable preformed - Felt. Outsole: Injected - Dual density PU resistant to -30°C. Amagnetic boot.	38 → 48	C € SN ISO 20345 SBH P A E FO CI WR SRC	865 g	x5



The DELTA-Tex WATERPROOF membrane, with SNOWTEX polyester lining offers optimal protection against harsh weather and harsh environments. The DELTA-Tex polyester membrane is waterproof and breathable. It offers waterproofing higher than 10,000 mm/ cm^2 (ISO 811). Impermeability is measured by placing this membrane under a tube of water (water column). The minimum water height at which the first drops of water pass through this membrane represents its impermeability.

PU DOUBLE DENSITY SOLE:

- The PU sole and padding made with specific composition guarantee the PU properties down
- The crampons as well as the SRC sliding resistance provide secure stabilisation on the ladder rungs. They lend a good grip on all types of indoor surfaces (cold rooms) and outdoors.





Following the Nordic markets' demand for boots suited to extreme cold, rain and wind conditions, we designed ESKIMO in order to protect your feet against these elements. The Canadian boot design, the DELTA-TEX™ membrane combined with SNOWTEX™ lining are durably waterproof and insulating.

WINTER BOOT

	æ	o [©]	JULI		V	<u></u>	
SAKHA S3 SRC	Beige	Upper: Cowhide leather, water resistant treatment S3 with TPR heel				870 g	
SAMARA S3 SRC		protection. Lining: Acrylic fur. Insole: Removable preformed - Polyester on EVA. Outsole: Injected - Dual density PU with front PU reinforcement.	39 → 48	CE	EN ISO 20345 S3 CI	882 g	x 5
CADEROUSSE S3 SRC		Upper: Full grain leather, S3 water resistant treatment. Lining: Acrylic furlined. Insole: Preformed removable - Felt. Outsole: Injected - Dual- density PU with bump cap.			SRC	852 g	

SAKHA S3 SRC





















































CADEROUSSE S3 SRC





























- DUAL DENSITY PU OUTSOLE 1- Hear wearing outsole with toe and heel grip 2- Lateral ladder grips
- ⇒1- Reinforced adhesion on loose ground ⇒2- Secured stabilisation on ladder rungs

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LAUTARET 3		Canadian fur-lined winter working boots. Lining: 100% polyester. Upper: PVC-coated fabric and polyamide Water-repellent treatment. Outsole: Thermoplastic (keeps it's property until -30°C).	38 → 47		EN ISO 20347 SRC OB E CI	626 g	x 6
ECRINS S5 SRC	Black	Safety boots. Upper: Bi-injection PVC. Lining: Polyester furlined. Insole: Fixe with aluminium protection. Sole: PVC - Nitrile with cleats - Steel S5 sole. Easy put on with band.	39 → 47	C€	EN ISO 20345 S5 CI SRC	1.1 kg	x5
MORNAS SRC	Green	Bi-injection PVC boot. Collar: PU. Lining: Polyester furlined. Outsole: PVC with cleats.	#0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•	EN ISO 20347 SRC OB E CI	884 g	x 6

LAUTARET 3















ECRINS S5 SRC















MORNAS SRC





METAL









BOOTS

RAIN BOOT

	€	o ^o	t itie t	o	V	<u></u>	
GIGNAC2 S5 SRC	Green	Safety boots. Upper: Bi-injection PVC. Lining: Jersey polyester. Puncture-resistant stainless steel plate. Sole: PVC - Nitrile with cleats - Steel S5.	39 → 47	 (€	EN ISO 20345 S5 SRC	1.20 kg	x 5
JOUCAS2 SRC		Working boots. Upper: Bi-injection PVC. Lining: Jersey polyester. Sole: PVC with cleats.			EN ISO 20347 SRC	1.0 kg	x 6
JOUCAS2 NO SRC	Black		· · · · · · · · · · · · · · · · · · ·		OB E		
VIENS2 S4 SRC	White	Safety boots. Upper: Bi-injection PVC. Lining: Jersey polyester. Outsole: PVC - Nitrile with staples.	36 → 47		EN ISO 20345 S4 SRC	1.0 kg	x 5
JAVON 2 E	Green	Garden half-boots. Upper: Bi-injection PVC. Lining: Jersey polyester. Sole: PVC with cleats.	39 → 47			788 g	x 6

GIGNAC2 S5 SRC

JOUCAS2 SRC

JOUCAS2 NO SRC

























VIENS2 S4 SRC





















JAVON 2 E







SOLES - LACES - SOCKS



	•	n ^o	LIGHT	<u></u>	
46500	Black-Grey	Spare soles. Polyester on PU.	36 → 48	60 g	x 100
45400	Dlook	Spare soles. Polyamide.	35/36 → 47/48		x 350
22180	···· Black	Round polyamide laces. Length: 100 cm.	One size	 10 g	. F00
LACET XL	Black-Grey	Round polyamide laces. Length: 120 cm.	· One size		x 500
PRATO	Khaki-Green Black-Grey	Antistatic and antibacterial socks. 64% cotton / 17% polyamide / 16% Nostatex® / 3% Lycra®. Anti-stress soft edge. Lycra® stretch. Antishrinking treatment (Prewashed).	39/42 → 43-46	82 g	x 100
CHAUSSETT	Champagne	Acrylic fleeced socks for boots.	One size	 120 g	
CHAUSSON	Grey	100% polyester Isothermic slipper. Rubber band ankle support - width 22 mm.	38/39 → 46/47	 46 g	x 50

46500





45400



22180



LACET XL



PRATO

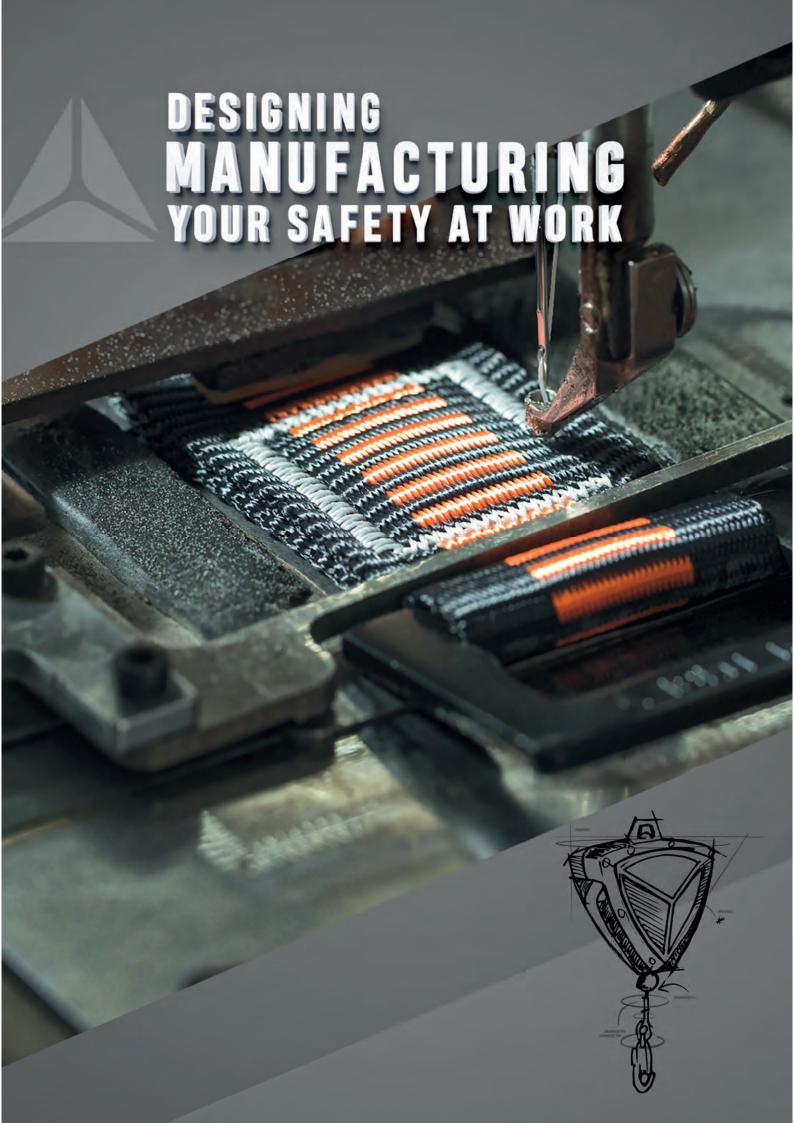


CHAUSSETT



CHAUSSON





FALL PROTECTION

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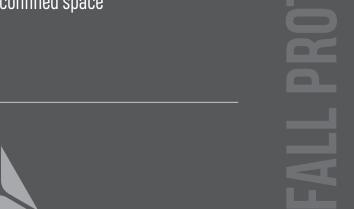
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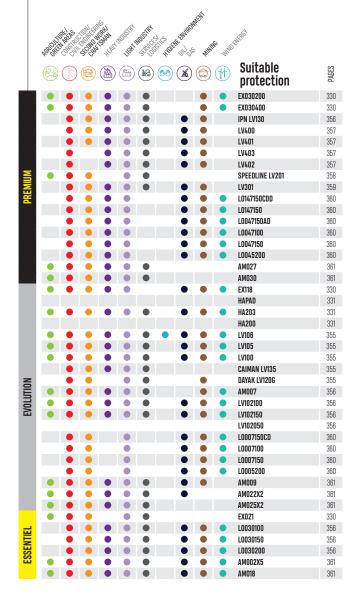


HELP WITH CHOICE

BODY SUPPORT Suitable protection JAGUAR HAR36TCP 320 GALAGO HAR35TC 322 GALAGO HAR35TCA 322 **EOLIEN HAR35** 324 **EOLIEN HAR35A** 324 ANATOM HAR32 324 HAR44EL 325 HAR42EL 325 367 RAH33 367 HAR25HA 326 HAR24H 326 HAR23H 327 EX220 327 HAR22H 327 HAR14 328 HAR12 328 HAR11 328 HAR12GILNO 328 EX120 328 HARVESGI



ANCHORAGE -WORK POSITIONING - CONNECTING SYSTEMS





FALL ARRESTER SYSTEMS - RESCUE - SUSPENSION Suitable PAGES protection ELARA340H 332 ELARA350H 332 ELARA390H 333 AN245200PRR 338 • • AN245200CDD 338 AN240CDD 338 AN235200PR 338 AN235200CD 338 • AN230CD 338 PROTECTOR EXTRA LARGE AN19040T 347 PROTECTOR EXTRA LARGE AN19060T 347 PROTECTOR LOAD AN517 351 PROTECTOR LOAD ANS18 • 351 PROTECTOR LOAD AN530 351 CAMELEON ANOGGA 352 ΔN410 352 CAMELEON ANOGG • 352 ΔN420 352 AN430 352 AN401 352 • AN701 354 ASCAB ANO71 354 AN801 354 ASCAB ANO24 354 AN802 354 ASCAB ANO25 354 363 PROTECTOR ELEVATOR TR01720F PROTECTOR ELEVATOR TRO1720T 348 PROTECTOR ELEVATOR TR01730F 348 PROTECTOR ELEVATOR TR01730T TRBAG3 371 • TRBAG 371 TRA20 364 TRA22_ 364 TRA30 364 • TRA32 364 TRA101 • 364 . TRA102 364 TRA103 364 • • • • TROO3C 364 TROO3K 364 • GIRAFF TRG20 366 TRG01 366 TRG02 366 TRG03 366 TC022 367 TC102C 367 RESCUEHUB TC063 • 368 • DESCENDER TC062 370 • • ROPE ACCESS KIT TCO39 370 370 • TC001 362 362 TC003 362 • SAFECORD TCOO7 362 DESCORD TC006 362 TC004 362 TC044 362 363 TC005 TC015 363 • TC016 363 • TC025 363 • • • • • TC040 363 TC029 363

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HELP WITH CHOICE



POSITIONING 2

ROPE ACCESS WORK

RESCUE 3



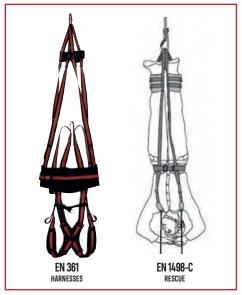
EN 358 RESTRAINT



EN 567



EN 358 RESTRAINT EN 12841 ROPE ACCESS WORK















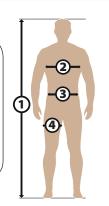


HELP WITH CHOICE

FALL ARREST



REF	SIZES	1	2
GT	S-M-L	<195 cm	<110 cm
XX	XL-XXL	>190 cm	>105 cm
		3	4
GT	S-M-L	<115 cm	<65 cm
XX	XL-XXL	>110 cm	>60 cm































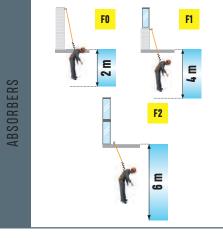


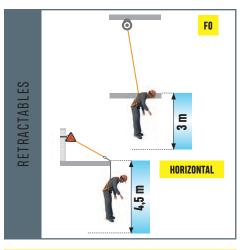


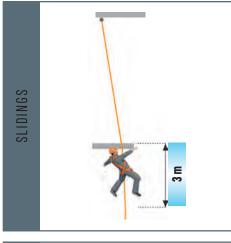


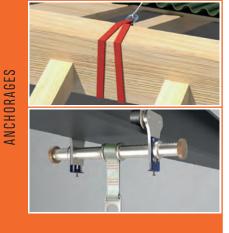


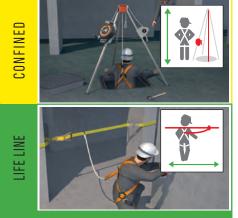


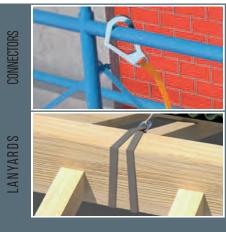












POSITIONING

ROPE ACCESS WORK

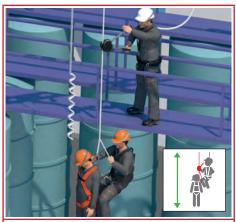
RESCUE





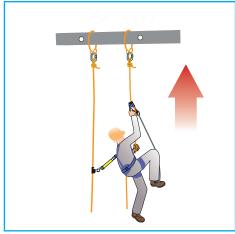


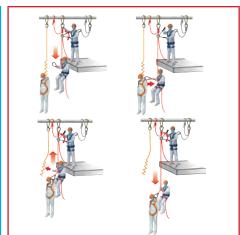


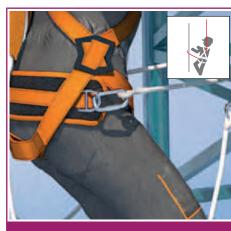


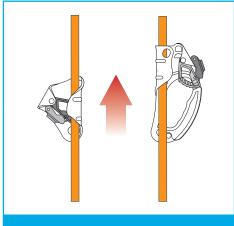












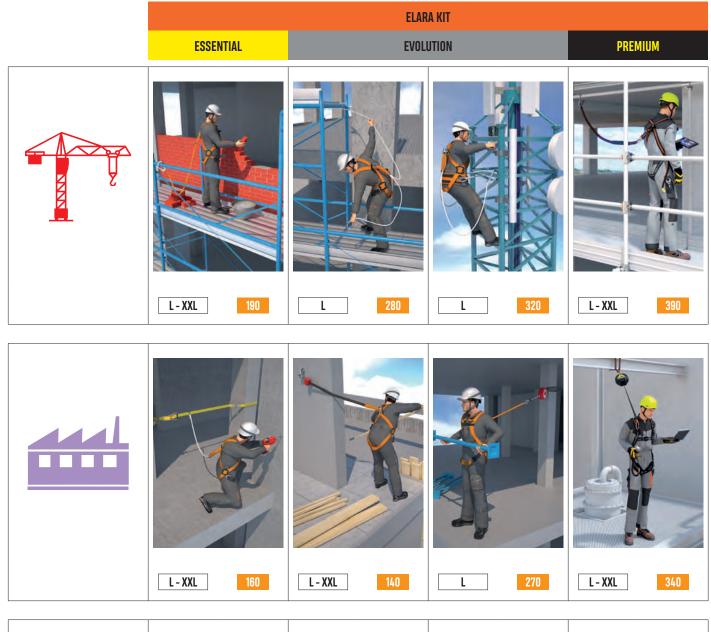




SAFETY INFORMATION - READY TO USE PROTECTION











L-XXL

130



L 150



L - XXL 170



L - XXL

350



HELP WITH CHOICE LIFETIME







WE ARE PROUD TO PRESENT OUR INNOVATIVE IDENTITY CARD



for all our Fall Arrest Products (except the carabiners). Since mid-2015, in addition to the compulsory printed label, our products have an electronic microchip indicating:

- ▶ PRODUCT REFERENCE
- SERIAL NUMBER
- MANUFACTORING DATE

Using an Android or Windows mobile phone having technology,



NFC

(Near Field Communication)

any user can scan the tag ((N)) and download our free "DELTA PLUS ID CARD" APP from our Website.

PRODUCT: AN13006C SERAL: D12.552.0028 USER: DATES: PROD.: D1/2012 START: SAV 2: SAV 3: DATA



USING APP ON YOUR SMARTPHONE

- 1. After flashing NFC tag, user can write/read:
- THE WEARER'S PRODUCT NAME.
- THE COMMISSIONING DATE OF THE PPE.
- 2. The Official Service Center (SAV) will write:
- > THE DATE OF EACH ANNUAL CONTROL.
- 3. Both user and controller can check anytime:
- > THE STATUS OF PRODUCT CONTROLS.





A PPE DATABASE is included to check anytime all the inventoried products.

ANNUAL CHECK REMINDER SERVICE

After creating all your products on the APP, you will receive an email 15 days before each compulsory annual control.

A full access to a more complete PPE DATABASE is available on our website using the same login/password as on ID Card Application.

ID Card App and Website databases are synchronized for using both tools together. It's up to you to use both or only one of them.





FALL ARRESTER AND SUSPENSION HARNESSES



	o ^c	j jju j	S	<u></u>	
JAGUAR HAR36TCP	Two colour harness with positioning belt for rope access work. 2 fall arrest anchorage points (dorsal-sternal). Positioning and seat belt with thermoformed large back and shorts. 3 work positioning attachment points (2 lateral and 1 on back). 1 suspension point (ventral). 1 ventral blocker for rope access. 6 adjustable buckles, of which 2 are automatic. 1 carabiner.	S/M/L XL/XXL	EN361 150 kg EN358 150 kg EN813 150 kg EN12841 TYPE B EN362	2.4 kg	x 5

JAGUAR HAR36TCP







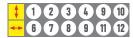














Comfortable with the thermoformed backrest and thigh with sponge lining and comfort pad

⇒Increased comfort



Tested at 150 kg →No problem related to the weight of the tools transported or other





2 accessory attachment holders incorporated into the belt

→Anchorage carabiners, lanyards



Automatic buckles ⇒Quick and easy set-up and adjustment

Comfort and multiple functionality for rope work.



1- Comfort and speed of implementation.

6 adjustment buckles 180° belt rotation

2- Dedicated to rope access

Ventral point of suspension Integrated ventral stopper

3- Functional and safe

Certified 150 kg 3 work positioning points Fall indicator

The strap, developed by our R&D department and woven in our factories, allows to have a real flexibility and thus to accentuate the notion of comfort for the user.





To optimise the progression of the user on his rope, we integrated a stopper on the harness, because it gives him a better stability.

David Naulin, Fall Protection Product Expert



FALL ARRESTER AND SUSPENSION HARNESSES

	o [©]	JUL	V	<u></u>	*
GALAGO HAR35TC	Two colour harness with belt: 2 fall arrester anchorage points (back - front). Positioning belt with thermoformed back and shorts, 2 work positioning attachment points (lateral). 1 suspension point. 8 adjustable buckles, 1 carabiner.	S/M/L XL/XXL C €	EN361 150kg	2.2 kg	v.E
GALAGO HAR35TCA	Two colour harness with belt: 2 fall arrest anchorage points (dorsal-sternal). Positioning belt with thermoformed back and shorts. 2 work positioning attachment points (lateral). 1 suspension point. 8 adjustable buckles, of which 4 are automatic. 1 carabiner.		150kg EN813 150 kg	2.6 kg	Χū

GALAGO HAR35TC



















Comfortable with the thermoformed backrest and thigh with sponge lining and comfort pad ⇒Increased comfort



Tested at 150 kg

→No problem related to the weight of the tools transported or other





2 accessory attachment holders incorporated into the belt

→Anchorage carabiners, lanyards and tools



2 quick release buckles to adjust or remove the shoulder straps to get a shorts belt EX320TC

⇒Can only be used as a harness for positioning

GALAGO HAR35TCA





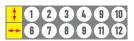
















Automatic buckles

⇒Quick and easy set-up and adjustment





FALL ARRESTER HARNESSES

	o ^o	JULI		Y	<u></u>	
EOLIEN HAR35	Two colour harness with positioning belt. 3 fall arrester attachment points (back-front right side - front left side). 4 adjustable buckles in light alloy. 2 automatic buckles. Positioning belt with thermoformed back closed with wide Velcro for more comfort. 180° rotation. 2 lateral anchorage points. 1 adjustment loop. Sponge back lining.			EN361 150 kg	0.15	
EOLIEN HAR35A	Two colour harness with positioning belt. 3 fall arrester attachment points (back-front right side - front left side). 4 adjustable buckles. Positioning belt with thermoformed back closed with wide Velcro for more comfort. 180° rotation. 2 lateral anchorage points. 3 adjustable automatic buckle. Sponge back lining.	S/M/L/ XL/XXL	C€	EN358 150 kg	2 kg	x 5
ANATOM HAR32	Two colour harness. 2 fall arrester anchorage points (back - front). 4 adjustable buckles.			EN361 150 kg	1.3 kg	

EOLIEN HAR35





















1234910 7 8 9 11 12















Soft padding on shoulders and thigh straps

- Removable back protection
- →Increased comfort



Fall indicator ⇒Easy visual verification





180° rotation ➡Easy rotation of the basin









2 accessory attachment holders incorporated into the belt

→Anchorage carabiners, lanyards and tools

Automatic buckles →Quick and easy set-up and adjustment

ANATOM HAR32





















123459 678911



Soft padding on shoulders and thigh straps





Automatic buckles ⇒Easy implementation



Fall indicator ➡Easy visual verification





phone holder

Tested at 150 kg →No problem related to the weight of the tools transported or other





	o ^o	title	V	_	
HAR44EL	Dielectric harness with positioning belt. 2 fall arrester anchorage points (back - front). 4 adjustable buckles. Positioning belt with thermoformed back closed with wide Velcro for more comfort. 180° rotation. 2 lateral anchorage points for work positioning. Sponge back lining. Buckles with plastic coating. Material insulates to 20kV.	S/M/L/ XL/XXL	EN361 EN358 C €	2 kg	х5
HAR42EL	Dielectric harness. 2 fall arrester anchorage points (back - front). 4 adjustable buckles. Buckles with plastic coating. Material insulates to 20kV.		EN361	922 g	

HAR44EL

















2 accessory attachment holders incorporated into the belt →Anchorage carabiners, lanyards and tools



180° rotation ⇒Easy rotation of the basin





DIELECTRIC ⇒Insulator up to 30KV

Tested at 150 kg →No problem related to the weight of the tools transported or other

HAR42EL



















FALL ARRESTER HARNESSES

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HAR25HA	Harness with positioning belt. 2 fall arrest anchorage points (dorsal - sternal). 6 automatic adjustable buckles. Positioning belt with thermoformed back closed by large velcro. 2 lateral work positioning anchorage points. 1 extension lanyard.	S/M/L/	((EN358 150 kg EN361	1.8 kg	v F
HAR24H	Harness with positioning belt. 2 fall arrest anchorage points (back-front). 6 adjustable buckles. Positioning belt with thermoformed back closed with wide Velcro. 180° rotation. 2 lateral anchorage points for work positioning.	XL/XXL		150 kg EN813 150 kg	1.7 kg	ΧŪ



















180° rotation

⇒Easy rotation of the basin



Automatic buckles ⇒Quick and easy set-up and adjustment





2 accessory attachment holders incorporated into the belt

→Anchorage carabiners, lanyards and





Tested at 150 kg ➡No problem related to the weight of the tools transported or other

HAR24H

















Fall indicator

⇒Easy visual verification



2 accessory attachment holders incorporated into the belt

→Anchorage carabiners, lanyards and tools





180° rotation ⇒Easy rotation of the basin



→No problem related to the weight of the tools transported or other



	o [©]	HILLS	~	4	\$
HAR23H	Harness with 3 fall arrest anchorage points (back - right front side - left front side). 5 adjustable buckles.		EN361	1.3 Kg	
HAR22H	Harness with 2 fall arrester anchorage points (back - front). 5 adjustable buckles.	S/M/L/ XL/XXL	150 kg C €	1 Kg	x 5
EX220	Positioning belt with thermoformed back closed with wide Velcro for more comfort. 180° rotation. 2 lateral anchorage points. 1 adjustment loop. Sponge back lining.		EN358 150 kg	712 g	

HAR23H



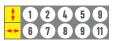














Fall indicator ⇒Easy visual verification







HAR22H

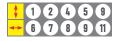














Fall indicator ⇒Easy visual verification



Tested at 150 kg →No problem related to the weight of the tools transported or other



EX220

















180° rotation ⇒Easy rotation of the basin





FALL ARRESTER HARNESSES

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HAR14	2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable lateral plates. Positioning belt with broad thermoformed back. Sponge lining. 2 anchorage points for work positioning.			EN358 140 kg EN361 140 kg	1.1 kg	
HAR11	1fall arrester anchorage point harness (back). 2 adjustment loops. 2 adjustable lateral plates.	S/M/L/ XL/XXL			624 g	0 0 0 0 0 0
HAR12	2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable lateral plates.	AL/AAL	C € EN361 140 kg		730 g	x 10
HAR12GILNO	Harness with work vest not removable: Harness (Ref. HAR12). Vest: 100% polyester. Polyester Mesh lining. Zip closure. 4 pockets including 1 phone pocket. Adjustable size by zip.				1.1 kg	
EX120	Positioning belt with thermoformed back. 2 lateral anchorage points for work positioning. 1 adjustment loop. Sponge back lining.	ioning. One size		EN358 140 kg	400 g	

HAR11















HAR12

















EX120















HAR12GILNO





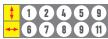
















Intuitive and fast set-up

HAR14















1- Intuitive

Bi-colour strap ensuring correct positioning of the harness Only 2 adjustment loops. Adjustable side plates for better adjustment of the

2- Ergonomics

Ultra light thanks to a thin but ultra compact strap

The 100% integrated construction allows the flexibility to create different typologies of straps, whether in the weaving technique, or, as in the case of the harnesses in the Essential range, to have a colour on each side.



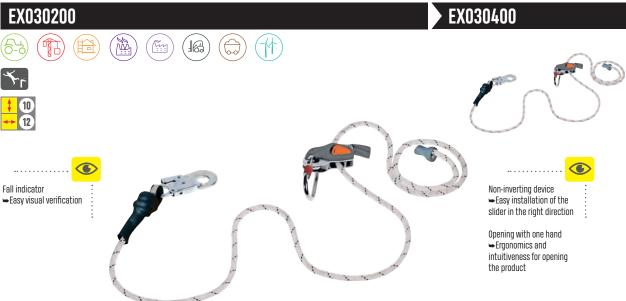


David Naulin, Fall Protection Product Expert



WORK POSITIONING SYSTEMS

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EX030200	Lanyard tensioner equipped with a rope and 1 AMO10 carabiner. The positioning device allows adjustment of the distance between the operator (with work positioning belt)			998 g	
EX030400	and the structure. Lanyard: Braided rope ø 11mm with manufactured ends. (See AN066 description too)	0,20 → 4 m		1.2 kg	x 5
EX118200A EX118400A	Adjustable work positionning lanyard via stainless steel tensioner. Adjustable length. Stranded rope Ø 14 mm equipped with a wear indicator. Thimble loop. Splice protection. Protective sheath. 1 hook.	0,20 → 2 m 0,20 → 4 m	C€ EN358	872 g 1.1 kg	
EX021	Adjustable work positionning lanyard via reducer. Adjustable length. Stranded rope Ø 12 mm. Protective sheath on the splices.	1,10 → 2 m		306 g	x15





FALL ARRESTER HARNESSES



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HARVESGI	Vest. Zip fastening. 4 pockets including 1 phone pocket. Adjustable size by zip. High visibility: Class 1 - Silver colour - Shoulder-belt assembly.	One size	EN ISO 20471 CLASS 1		x 10
LV102050	Extension strap in high tenacity polyester with D-ring. Width 45 mm. End loop with shrinkage and steel anchor D.	0,50 m	EN795 TYPE B EN354	300 g	x 15
HAPAD	Comfort pad for back.			170 g	x 10
HA203	Pair of straps enabling blood circulation in the legs after a fall while waiting for help. Adjustable for any type of harness by positioning on the side straps. Ease and speed of implementation. Carrying case.	One size		80 g	x 25
HA200	Tool holder. Extended length: 1 m. Maximum working load: 4 kg.			60 g	x 20

HARVESGI

























HA200



HA203



































KITS

	o ^c	TITLE	V	4	
ELARA340H	INDUSTRY 6 M - ready for use fall arrest kit: Harness with 3 fall arrester anchorage points (backright front side - left front side). 5 adjustable buckles (Ref. HAR23H). Self retractable fall arrester with polyester webbing 25 mm. ABS protection. Swivel with fall indicator. 1 carabiner AM002 (Ref AN13006C). Anchorage ring with high tenacity polyester strap. Width 45 mm. End loop with shrinkage and steel anchor D (ref. LV102100). Comfort pad for back (Ref. HAPAD). 1 tool holder (Ref. HA200). 1 carabiner AM002.	er n s S/M/L/ s XL/XXL C €	EN360 EN361 EN362 EN795 TYPE B	4.1 kg	х5
ELARA350H	SERVICES - ready for use fall arrest kit: Harness with positioning belt. 2 fall arrest anchorage points (back - front). 6 adjustable buckles. Positioning belt with thermoformed back closed with wide Velcro. 180° rotation. 2 lateral anchorage points for work positioning (ref. HAR24H). Fall arrest sliding on anchorage line stranded rope Ø 14 mm, opening type, equipped with automatic locking, non-inverting device, energy absorber with fall indicator (ref. AN065). Anchorage line stranded rope Ø 14 mm (ref. AN30010). Adjustable work positionning lanyard via reducer. Adjustable length. Stranded rope Ø 12 mm. Protective sheath on the splices (ref. EX021). Anchorage ring with high tenacity polyester strap. Width 45 mm. End loop with shrinkage and steel anchor Ø (ref. LV102100). 1 tool holder (ref. HA200). 2 carabiners AM002.		EN353-2 EN358 EN361 EN362 EN795 TYPE B	5.2 kg	х3

ELARA340H























ELARA350H

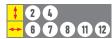






























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ELARA390H	CONSTRUCTION - ready for use fall arrest kit: Harness with 2 fall arrest anchorage points (back - front). 5 adjustable buckles (Ref. HAR22H). Fall arrest with energy absorber elastic strap. Thimble loops. Equipped with 1 AM002 carabiner + 1 AM022 hook (Ref. AN235200CD). 1 tool holder (Ref. HA200). 1 carabiner AM002.	S/M/L/ XL/XXL	EN355 EN361 EN362	2.8 kg	
ELARA320	POSITIONNING & SCAFFOLDING - ready for use fall arrest kit: 2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable side plates. Positioning belt (Ref. HAR14). Adjustable work positionning lanyard via reducer. Length of 1.1 to 2 m. Stranded rope Ø 12 mm (Ref. EX021). Fall arrester with energy absorber in double stranded rope (Y) Ø 12mm. Length 2 m. 1 AM002 carabiner and 2 AM022 hooks (Ref. AN211200CDD) 2 connectors AM002.	S/M/L	€ EN355 EN358 EN361 EN362	3.5 kg	x5

ELARA390H













































- FALL ARRESTER SYSTEMS

KITS

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ELARA280	SCAFFOLDING - ready for use fall arrester kit: 2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable side plates. (Ref. HAR12). Fall arrester with energy absorber in double stranded rope (Y) Ø 12mm. Length 2 m. 1 AM002 carabiner and 2 AM022 hooks (Ref. AN211200CDD)			EN355 EN361 EN362	2.5 kg	x 5
	VERTICAL 10 M - Ready for use fall arrester kit: 2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable side plates. (Ref. HAR12). Self retractable fall arrester with steel strap. Length 10 m. ABS case. 1 automatic swivel connector and fall indicator AM016 (Ref. AN12010T). Lanyard and anchorage point in tubular strap, length 2 m (Ref. L0030200). 2 connectors AM002.	S/M/L	C€	EN354 EN360 EN361 EN362 EN795 TYPE B	9.1 kg	x 1

ELARA280









































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ELARA170	ROOF - ready for use fall arrester kit: 2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable side plates. (Ref. HAR12). Sliding non opening fall arrester set with fall indicator on stranded rope anchorage line Ø 12 mm, length 20 m. (Ref. AN063/20). 2 connectors AM002.	S/M/L/ XL/XXL		EN353-2	3.4 kg	
	ROOF - ready for use fall arrester kit: 2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable side plates. (Ref. HAR12). Sliding non opening fall arrester set with fall indicator on stranded rope anchorage line Ø 12 mm, length 10 m (Ref. AN063/10). 2 connectors AM002.	S/M/L	Ce	EN361 EN362	2.4 kg	ХЪ

ELARA170











































- FALL ARRESTER SYSTEMS KITS

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ELARA140	VERTICAL 2.50 M - Fall arrester kit ready for use: 2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable side plates. (Ref. HAR12). Self retractable fall arrester with 46 mm strap with energy absorber. Protection case. 1 connector AM002 (Ref. AN102). 1 connector AM002.	S/M/L/	EN360 EN361 EN362	1.9 kg	
ELARA190	SCAFFOLDING - ready for use fall arrester kit: 2 fall arrester anchorage point harness (back - front). 2 adjustment loops. 2 adjustable side plates. (Ref. HAR12). Fall arrest with energy absorber with lanyard strap, length 2 m, equipped with 1 connector AM002 and 1 AM022 hook (Ref. AN203200CD).	XL/XXL	EN355 EN361 140 Kg EN362	1.8 kg	

ELARA140









































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ELARA130	RESTRAINT - ready for use kit: 1 fall arrester anchorage point harness (back). 2 adjustment loops, 2 adjustable side plates with lanyard in irremovable stranded rope Ø 12 mm. Length 1.50 m. 1 connector AM002.	S/M/L/ XL/XXL	0	EN358 140 kg	900 g	
ELARA160	CLASSIC - ready for use fall arrester kit: 1 fall arrester anchorage point harness (back). Two adjustment loops, 2 adjustable side plates with fall arrester with not removable energy absorber in stranded rope Ø 12mm, length 2 m. 1 carabiner AM002.	S/M/L/ XL/XXL	C€	EN361 EN355	946 g	х5

ELARA130



































ENERGY ABSORBING LANYARDS

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AN245200PRR	Dielectric fall arrest with energy dissipater in double elastic strap (Y). Thimble loops. Equipped with 1 carabiner AM010D + 2 hooks AM022D. Material insulates to 30kV.		AMO10D x1	₽x2 AM022D		1.9 kg	
AN235200PR	Dielectric fall arrest with energy dissipater in elastic strap. Thimble loops. Equipped with 1 carabiner AM010D + 1 hook AM022D. Material insulates to 30kV.		AMO10D x1	₽ x1 AM022D		1.2 kg	
AN245200CDD	Fall arrest with energy dissipater in double elastic strap (Y). Thimble loops. Equipped with 1 carabiner AM002 + 2 hooks AM022.		X1 AM002	AM022 x 2		1.6 kg	
AN235200CD	Fall arrest with energy absorber elastic strap. Thimble loops. Equipped with 1 carabiner AM002 + 1 hook AM022.	1,40 → 2 m	X1 AM002	AM022 x1	C € EN355	994 g	х5
AN240CDD	Fall arrester with extensible energy absorber in double woven webbing (Y) with integrated crumple on the lanyard. Retracted length: 1.40 m. Stretched length: 2 m. 1 carabiner AM002. 2 hooks AM022.		X1 AM002	AM022 x 2		1.8 kg	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
AN230CD	Fall arrester with energy absorber in woven webbing with integrated crumple on the lanyard. Retracted length: 1.40 m. Stretched length: 2 m. 1 Screw lock carabiner in galvanized steel, opening 17 mm (AM002). 1 Automatic hook lock in galvanized steel, large opening 55 mm (AM022).		x1	2 x1		1kg	

AN245200PRR

























AN245200CDD

169 67891

























AN240CDD

















Energy dissipater in woven strap with integrated crumple on the lanyard

Reduced resting length limits discomfort to the operator and the risk of stumbling

Protective sheath on loops to reduce wear caused by the friction of connectors

AN230CD















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AN218S200CDD	Fall arrester with energy absorber in double braided rope (Y) Ø 10.5 mm with shrink tubing to compress the lanyard. Thimble loops.	2 m	x1 AM022	x 2		1.9 kg	
AN208S200CD	Fall arrester with energy absorber in braided rope Ø 10.5 mm with shrink tubing to compress the lanyard. Thimble loops.	Z III	x1 AM002 AM022	χ1 • C €	EN355	1.2 kg	x 5
AN218R2CDD	Fall arrester with energy absorber in double braided rope Ø 12 mm (Y), adjustable by means of two gear rings on the rope.	1.50 → 2 m	X1 AM002 AM022	x 2		1.9 kg	
AN208R2CD	Fall arrester with energy absorber in braided rope Ø12 mm, simple and adjustable by means of a gear ring on the rope.	1,00 - 2 111	x1 AM022 AM022	x1		1.2 kg	

AN218S200CDD

















































ENERGY ABSORBING LANYARDS

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AN201200CC	Fall arrester with energy absorber in stranded rope Ø 12 mm.	2 m			800 g	
AN201200CD	Thimble loops.		x1	C C FNOTE 11	11 kg	
AN211200CCC	Fall arrester with energy absorber in stranded rope (Y) Ø 12 mm.			C € EN355	1.1 kg	х5
AN211200CDD	Thimble loops.		x1		2 kg	# 2

AN201200CC

















AN201200CD















AN211200CCC



















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AN203200CC	Fall arrester with energy absorber in lanyard webbing. Thimble loops.	s	x1		668 g	
AN203200CD	i an an ester with energy absorber in langard webbing. Hillinde 100ps.		x1	C € EN355	1 kg	x 5
AN213200CCC	Fall arrester with energy absorber in double lanyard webbing (Y).	Z III	x1 x2 AM002	C C EN200	1.3 kg	ΧŪ
AN213200CDD	Thimble loops.		x1		1.6 kg	





ENERGY ABSORBING LANYARDS

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AN213100CDD	Fall arrester with energy absorber in double lanyard webbing (Y). Thimble loops.		x1	(€ EN355	1.3 kg	v 5
AN203100CC	Fall arrester with energy absorber in lanyard webbing. Thimble loops.	- 1m	x1 x1 x1 x1 AM002	C ENSOS	600 g	ΛJ

AN213100CDD















AN203100CC











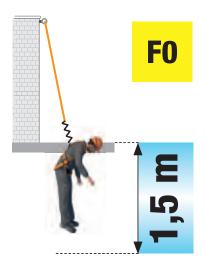


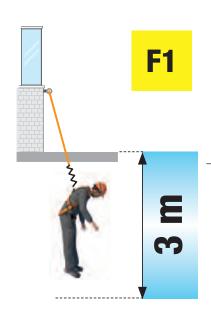






Identifying a usage factor is complex. With this device no more hesitation possible: it is the safest factor.







1-Ergonomics

Easy anchoring thanks to its large connectors

The length of 1m reduces the air draft in factor 1 Impossible to position in factor 2

The No Shock absorber system developed by Delta Plus makes it possible to find the right compromise between braking force and stopping distance for a better safety of the operator.



The failure to recognise or to take into account the air draft as a fall factors is a problem for some companies who want to ensure that their employees are always in a secure position. That's why we created these 1m long absorbers: the employer ensures the safety of the user with a reduced air draft and the impossibility of anchoring in factor 2.

David Naulin, Fall Protection Product Expert



RETRACTABLE FALL ARRESTERS

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PROTECTOR TETRA AN15006F	Self retractable fall arrester with galvanised steel cable with integrated energy absorber. ABS case. Fall indicator. Inertia locking system.	6 m	≈ x 1 AM020		5.6 kg	- x1
PROTECTOR TETRA AN15015F		15 m	≈ x 1 AM020	C € EN360 150 kg	6.5 kg	
PROTECTOR TETRA AN15006T		6 m	x 1 AM016		5.6 kg	
PROTECTOR TETRA AN15015T		15 m	x 1 AM016		6.5 kg	
PROTECTOR TETRA AN15010F		10 m	≈ x 1 AM020		5.8 kg	0 0 0 0 0
PROTECTOR TETRA AN15010T			x 1 AM016		5.3 kg	

PROTECTOR TETRA















Fall indicator ightharpoonupEasy visual verification





2 integrated carrying handles ⇒Easy to transport and set-up



Tested at 150 kg

➡No problem related to the weight of the tools transported or other

High strength ABS casing →High impact resistance



Link performance with ergonomics



ABS shock casing for a very high resistance Certified 150 kg Excellent reactivity and very low braking force thanks to a mechanical system specifically developed for these type of results



Brake discs prepared during manufacture by running them in order to be 100% efficient from the first use. This preparation, which consists of carrying out a calibration of the whole brake system, makes it possible to have the best possible compromise between braking force and fall stopping distance.



Innovation developed thanks to the know-how of FROMENT, our historical subsidiary expert in mechanical systems, this TETRA range is acclaimed by professionals who work at height.

David Naulin, Fall Protection Product Expert



RETRACTABLE FALL ARRESTERS

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PROTECTOR TETRA AN14006F	6 Self retractable fall arrester with webbing with energy absorber.	· C m	≈ x 1 AM021		EN360 HORIZONTAL CERTIFICATION 100 kg	5.4 kg	
PROTECTOR TETRA AN14006T		6 m	→ x 1 AM016				1
PROTECTOR TETRA AN14008F	ABS case. Fall indicator. Inertia locking system.		≈ x 1 AM021	9.0		5.4 kg	ХІ
PROTECTOR TETRA AN14008T		8 m	→ x 1 AM016				

PROTECTOR TETRA















Fall indicator ⇒Easy visual verification







2 integrated carrying handles ⇒Easy to transport and set-up

High strength ABS casing ➡High impact resistance

Tested at 150 kg →No problem related to the weight of the tools transported or other



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PROTECTOR EXTRA LARGE AN19040T	Self retractable fall arrester with Ø 4,8 mm steel cable with integrated	40 m	×1 AM016	C€ EN360	21.1 kg	1
PROTECTOR EXTRA LARGE AN19060T	ergy absorber. ABS case. Fall indicator. Inertia locking system.	60 m	⊶ x 1 AM016		30.5 kg	
PROTECTOR LARGE AN18020T	Sen refractable fall affester with darrangen steel capie with	20 m	⊶ x 1 AM016		11.5 kg	ΧI
PROTECTOR LARGE AN18030T	egrated energy absorber. ABS case. Fall indicator. Inertia locking	30 m	∞ x 1 AM016		12.35 kg	3 1 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

PROTECTOR EXTRA LARGE









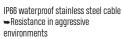


















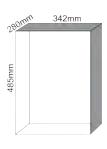




PROTECTOR LARGE



Fall indicator ⇒Easy visual verification









RETRACTABLE FALL ARRESTERS

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PROTECTOR METAL AN115F		20 m	≈ x 1 AM020			9.5 kg	
PROTECTOR METAL AN115T	20111 × 1 AM016		•	9.5 kg			
PROTECTOR METAL AN116F	Self retractable fall arrester with galvanised steel	9E m	≈ x 1 AM020	20		10 kg	
PROTECTOR METAL AN116T	cable with integrated energy absorber. Steel case. Fall indicator. Inertia locking system.	25 m	× 1 AM016	• • • • • • • • • • • • • • • • • • •		10 kg	
PROTECTOR METAL AN11730F		30 m	≈ x 1 AM020	C € EN360 150 kg		11 l/a	. v1
PROTECTOR METAL AN11730T		30 m	x 1 AM016			11 kg	х1
PROTECTOR ELEVATOR TR01720F		00 m	≈ ≈≈ x 1 AM020	40 0 0 0 0 0 0		14.6 kg	•
PROTECTOR ELEVATOR TR01720T	Self retractable fall arrester in steel cable with	20 m	× 1 AM016	#0 0 0 0 0 0 0	EN1496	14.6 kg	
PROTECTOR ELEVATOR TR01730F	removable rescue winch. Steel case. Inertia locking system. Energy absorber	00 m	≈ x 1 AM020	•)	CLASS A	18.9 kg	
PROTECTOR ELEVATOR TR01730T		30 m	→ x 1 AM016	**************************************		18.9 kg	

PROTECTOR METAL

















Fall indicator ⇒Easy visual verification



Tested at 150 kg →No problem related to the weight of the tools transported or other



PROTECTOR ELEVATOR





















Equipped with a rescue winch ⇒Rescue a person without sending a rescuer



Fall indicator ⇒Easy visual verification







Tested at 150 kg →No problem related to the weight of the tools transported or other



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MAXIBLOC AN10006T	Self retractable fall arrester with Ø 4 mm galvanised steel cable with	6 m	×1 AM016		2.80 kg	v1
MAXIBLOC AN10010T	integrated energy absorber. PP case. Fall indicator.	10 m	∞ x 1 AM016	C € EN360 150 kg	3.75 kg	. X I
MEDBLOC AN13006C	Self retractable fall arrester with polyester webbing 25 mm. ABS protection. Swivel with fall indicator. 1 carabiner AM002.	6 m	 x1AM002		1.60 kg	х5

MAXIBLOC











Lightweight ⇒Easy to transport and set-up



Fall indicator **⇒**Easy visual verification



Tested at 150 kg ► No problem related to the weight of the tools transported or other

MEDBLOC AN13006C

















Light and compact: 1.8 kg ⇒Easy to transport and set-up



Fall indicator ⇒Easy visual verification





Tested at 150 kg →No problem related to the weight of the tools transported or other







RETRACTABLE FALL ARRESTERS

	o [©]	JULI	0		<u></u>	
MINIBLOC AN102	Self retractable fall arrester with 46 mm strap with energy absorber. Protection case. 1 carabiner AM002.	2,50 m	 x1AM002		1.1 kg	
FIXBLOC AN105	Self retractable fall arrester with 17 mm polyester/Aramid Kevlar® strap. Plastic case. Inertia locking system. 1 automatic swivel connector with fall indicator. 1 carabiner AM002.	1,90 m	* x1AM002	C € EN360 150 kg	834 g	х5

MINIBLOC AN102



















FIXBLOC AN105















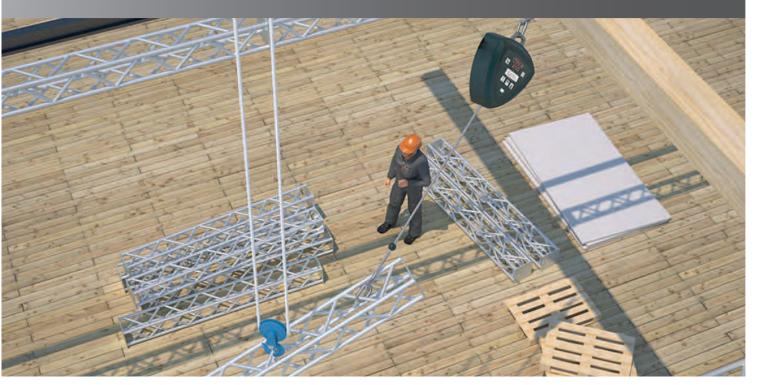




Fall indicator ⇒Easy visual verification







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PROTECTOR LOAD AN517	Load fall arrester in galvanized cable Ø 4 mm to secure all moving loads under		5.1 kg		
PROTECTOR LOAD AN518	250 kg. High resistance ABS case.	15 m	C € 2006/42/EEC	5.9 kg	x1
PROTECTOR LOAD AN530	Load fall arrester in galvanized cable Ø 6 mm to secure all moving loads under 500 kg. Steel case.	12 m		11.6 kg	

LOAD SELF RETRACTING FALL ARREST

PROTECTOR LOAD AN517 - AN518















LOAD SELF RETRACTING FALL ARREST

PROTECTOR LOAD AN530

















FALL ARRESTERS ON ROPE

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ASDRISS2 ANO68	Fall arrester sliding on anchorage line stranded rope Ø 10.5 mm (rope sold separately). Opening type fall arrester equipped with automatic locking and energy absorber. 1 carabiner.		x 1 AM002	EN353-2 EN362	549 g		
CAMELEON ANO66A	3 multi function products in 1:1- Sliding fall arrester on braided rope anchorage line ø 10,5-11mm equipped with an extension tab with energy absorber and an AM002 carabiner. 2- Stopper on rope: The rope's adjusting device used in the safety bracket (type A) accompanies the user during his changes of position and locks under the action of a static or dynamic load. 3- Stopper on rope: The ascension device on its work support, locks under the action of a load in one direction and slides freely in the opposite direction (type B) (see EX030 description too).		x 1AM002		706 g		
CAMELEON ANO66	3 multi function products in 1:1- Sliding fall arrester on braided rope anchorage line ø 10,5 - 11mm + 1 AM002. 2- Stopper on rope: The rope's adjusting device used in the safety bracket (type A) accompanies the user during his changes of position and locks under the action of a static or dynamic load. 3- Stopper on rope: The ascension device on its work support, locks under the action of a load in one direction and slides freely in the opposite direction (type B) (see EX030 description too).		* x1AM002		EN353-2 EN12841 Type A	300 g	х5
AN410		10 m	x1AM002	-	1.4 kg		
AN420	Anchorage line in braided rope Ø 11mm for CAMELEON® and ASDRISS2.	20 m	X1AM002		2.1 kg		
AN430	1 loop sewn thimble. Equipped with an ANOO6 counterweight and an AMOO2 connector.	30 m	x1AM002		2.9 kg		
AN401		per meter	x1AM002				
ASDRISS2	AN068 CAMELEON AND (CAMELEON AND		CAMI	ELEON ANO6	66		
* * *	Opening with one hand Frgonomic and simple to use	d C	⇒ Ea: Exter ⇒ Be	ndicator and non-inverti sy visual verification nsion carabiner tter user mobility	ng device	(
AN410	AN420		AN430	ANA	.01		







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ASCORD ANO65	Fall arrester sliding on anchorage line stranded rope 0 14 mm (rope sold separately). Opening type fall arrester equipped with automatic locking, non-inverting device, energy absorber with fall indicator. 1 carabiner AM002.		 x1AM002			736 g	x 5
FENNEC ANO6310	Niding non appains fall arrester act with fall indicator on stranded	10 m		0		1.3 kg	x 10
FENNEC ANO6320	Sliding non opening fall arrester set with fall indicator on stranded rope anchorage line Ø 12 mm. Wear indicator. 1 loop spliced on high	20 m		C € EN353-2	2.2 kg	x 5	
FENNEC ANO6330	end.	30 m	** **	0 0 0 0		3 kg	x 5
AN30010		10 m			1.6 kg	x 10	
AN30020	Anchorage line stranded rope Ø 14 mm for ASCORD®. End spliced with thimble loop. 1 carabiner AM002.	20 m	x1AM002	0 0 0 0 0		3 kg	x 5
AN30030		30 m	*** ** ** ** ** ** ** ** ** ** ** ** **	•		4.1 kg	x 5

ASCORD AN065





















Non-inverting device →Easy installation of the slider in the right direction

Energy dissipater with fall indicator



AN30010

AN30020

AN30030



FENNEC















Recommended accessory for the proper use of this product : 1 connector AM002







FALL ARRESTERS ON CABLE

	o [©]	July	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	V	_	
AN701	Vertical central attachment composed of 2 stainless steel plates with Ø 12 mm anchor screws and tensioner system. ANO24/ANO25 cable sold separetly by meter.			EN795 Type a	4 kg	х1
AN801	Top attachment (EN795-A), lower attachment and tensioner system in stainless steel with universal anchorage.		• · ·	EN795 TYPE A (AN801UNI)	4.2 kg	x 6
AN802	Intermediary attachment in stainless steel with universal anchorage. Recommended at least every 8 m.				1.3 kg	x 12
ASCAB ANO71	Sliding opening fall arrester on anchorage line in cable Ø 8 mm with self-locking, non-inverter device, extension tab with energy absorber. 1 carabiner AM002.				1 kg	х5
ASCAB ANO24	1 meter anchorage line cable for ASCAB in stainless steel. 1 thimble sleeve loop. 1 carabiner AM002.	1m	CE	EN353-1		x1
ASCAB ANO25	Additional meter of anchorage line cable for ASCAB.	per meter	00 0 0 0 0 0			

AN701























AN801













Non-inverting device ⇒Easy installation of the slider in the right direction













ANCHORAGE DEVICES



	o [©]	LIVE		\checkmark	<u></u>	
LV106	Swivel anchorage point in stainless steel, for vertical or horizontal installation (ceiling).		0 0 0 0 0		100 g	
LV105	Anchorage with stainless steel eye Ø 12 mm. Overall length 140 mm. Rod length (under flange) 100 mm. Thread length 80 mm.			EN795 Type a	174 g	x 10
LV100	Stainless steel anchorage mounting plate with screws Ø 12 mm.		•		46 g	
CAIMAN LV135	Anchorage for concrete block. Adjustable length from 80 cm to 120 cm.	Adjustable	<i>((</i>	EN795 Type B	12.9 kg	х1
DAYAK LV120G	Transportable anchorage point, galvanized steel, for door frame or window of 63 to 123 cm. Adjustable with clamping screw.	Aujustublo	7.0	TS16415 2	7 kg	x1

LV106



























CAIMAN LV135



















LV105



























DAYAK LV120G





















4







To seal or to screw



































ANCHORAGE DEVICES

	o [©]	Juli	V		
IPN LV130	A transportable interim anchorage device with aluminium alloy wheels. It can be attached to beams of width 76 to 255 mm.	Adjustable	EN795 TYPE B	4 kg	х4
AM007	Sling anchor in galvanized steel cable Ø 8 mm. Protective sheath. 2 thimble ferrule loops.	1m		600 g	х5
LV102100	Anchorage ring with high tenacity polyester strap. Width 45 mm. End loop with shrinkage and steel anchor D.	1m		222 g	
LV102150	Anchorage ring with high tenacity polyester strap. Width 45 mm. End loop with shrinkage and steel anchor D.	1,50 m	C € EN795	258 g	e) 0 0 0 0 0 0 0 0 0 0 0 0 0
LV102050	Extension strap in high tenacity polyester with D-ring. Width 45 mm. End loop with shrinkage and steel anchor D.	0,50 m	EN354	300 g	x 15
L0030100		1m		70 g	
L0030150	Lanyard and anchorage point in tubular strap. 2 sewn loops. Width 25 mm.	1,50 m		187 g	, , , , , , , , , , , , , , , , , , ,
L0030200		2 m		218 g	











































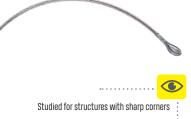












LV102100

LV102150

LV102050































L0030100

L0030150

L0030200

























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LV400	Telescopic rod with 5 sections. Closed length 2 m. Open Length 8 m. Material insulates to 30kV.	··· Adjustable			5 kg	х1
LV403	Telescopic rod with 3 sections. Closed length 1,2 m. Open Length 3 m. Material insulates to 30kV.				4 kg	
LV401	Automatic lock hook in aluminium with double opening action. Opening 90 mm R> 23kN.		C€	EN795 TYPE B EN362 CLASS A	1.1 kg	x 10
LV402	Adapter for connector, for use with AM022 or AM030 (sold separately). Usable on LV400 and LV403 rods. Particularly suitable for rescuing upwards or downwards.	en			362 g	60 0 0 0 0

LV400









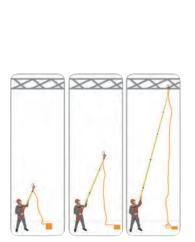






































LV401

















































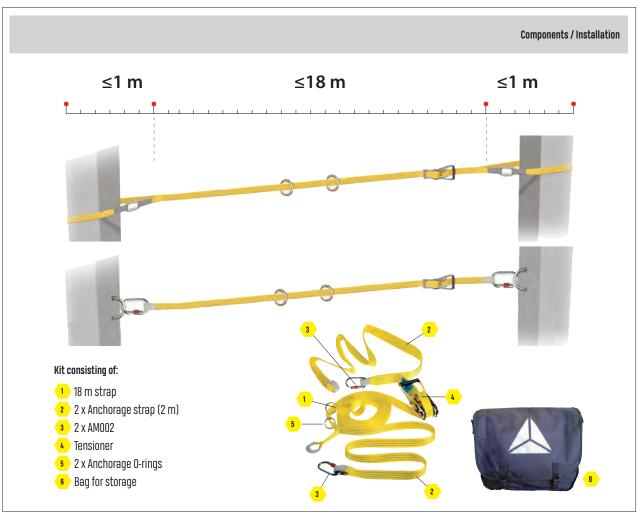




ANCHORAGE DEVICES

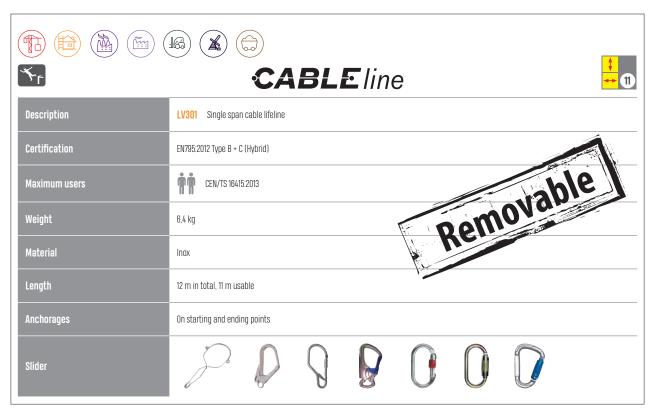


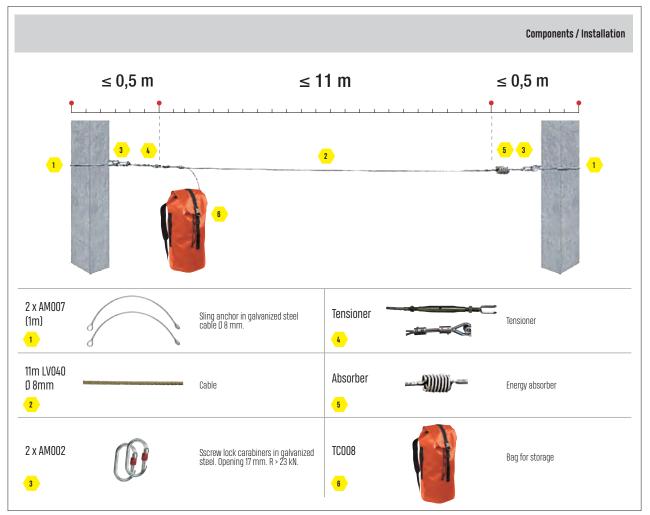






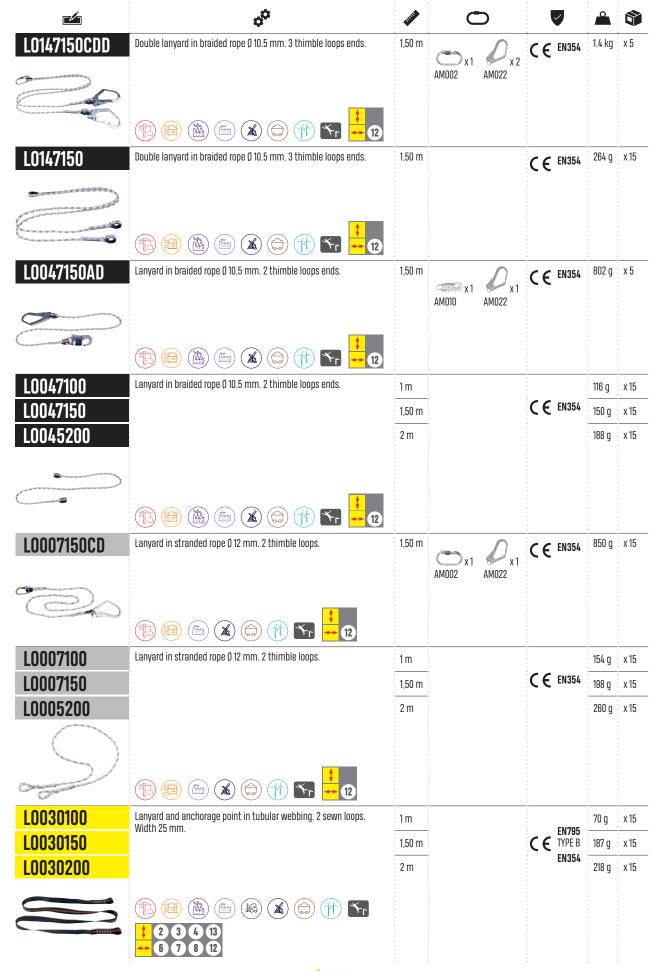








LANYARDS



CONNECTING SYSTEMS CONNECTORS



AM027	Automatic lock carabiner in light alloy. Large opening 58 mm. Sliding ring. Eye hook opening with latch.	C€	EN362 CLASS A / T	240 g	x 20
AM030	Automatic lock hook in aluminium alloy. Opening 25 mm.	C€	EN362 CLASS A / T EN12275 TYPE D TYPE K	130 g	x 20
AM009	Ouick docking in stainless steel. Large aperture 150 mm. Eye hook. R > 23 kN.	C€	EN362 CLASS A / T	380 g	x 20
0					
AM022X2	Set of 2 automatic hooks lock in galvanized steel. Large opening 55 mm. Eye hook. R > 20 kN.	C€	EN362 CLASS A	1.0 kg	x 10
AM025X2	Set of 2 automatic lock carabiners in light alloy. Opening 22 mm. Ring 1/4 turn. R > 25 kN.	CE	EN362	180 g	x 10
	6→ 1 (a) (b) (b) (c) (c)		CLASS B		
AM002X5	Set of 5 screw lock carabiners in galvanized steel. Opening 17 mm. R > 23 kN.	CE	EN362 CLASS B	802 g	х 4
			CLASS B		
AM018	Karabiner with 1/4 turn automatic lock in steel. Opening 17 mm. R > 25 kN.	CE	EN362 CLASS B	200 g	x 20
			CLASS B		



- SUSPENSION ROPE ACCESS WORK

TC001	Ventral opening blocker type in aluminium alloy. Works on braided rope 0 8 to 13 mm.	C€	EN567	160 g	x 10
TC002	Right hand ascension handle in aluminium alloy. Works on braided rope Ø 8 to 13 mm.	C€	EN567	240 g	x 10
TC003	Left hand ascension handle in aluminium alloy. Works on braided rope Ø 8 to 13 mm.	C€	EN567	240 g	x 10
TC012	Mono stirrup adjustable strap 25 mm from 90 to 120 cm. Pedal ascent. To pair with TC002 or TC003.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		200 g	x 10
SAFECORD TC007	Locking device suitable for descent and ascent, with mechanical traction systems.	CE	EN12841 Type C	360 g	x 50
TEORY COURT			EN341 Type 2 Class A EN358		
DESCORD TC006	Self locking descender with double security (anti-panic system) in aluminium. Intended for works on braided rope 0 9 à 12 mm.	CE	EN341 CLASS 2A EN12841	360 g	x 50
			TYPE C		
TC004	Figure of eight in aluminium alloy. Works on braided rope Ø 9 to 12 mm.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		130 g	x 20
TC044	Safety figure of eight in aluminium alloy. Works on braided rope Ø 9 to 16 mm.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		260 g	x 20
8					



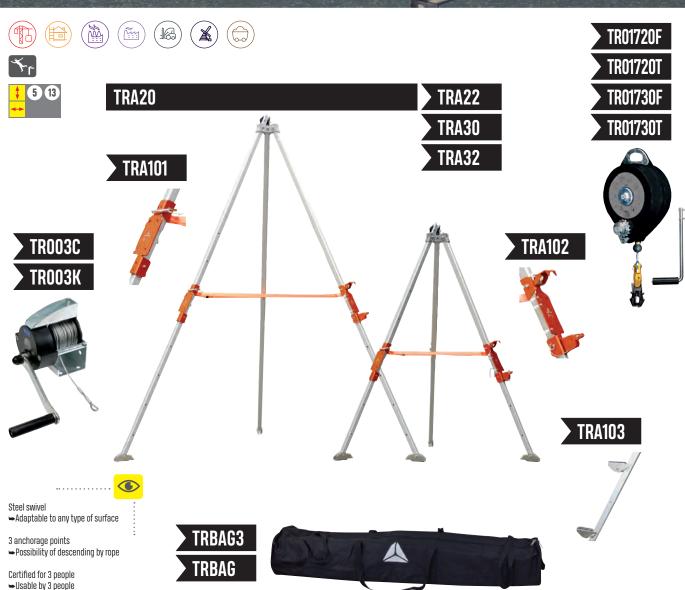
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TC005	Oscillating pulley flanges in aluminium alloy. Intended for works on braided rope less than Ø 16 mm.		C€	EN12278	250 g	x 10
Treat () () () () () () () () () (
TC015	Double pulley with oscillating flanges in aluminium alloy for braided rope less than 0 16 mm.		C€	EN12278	430 g	x 10
TRAIS TRAIS TRAIS						
TC016	Mini pulley in aluminium alloy for braided rope less than 0 13 mm and cable less than 0 12 mm.		C€	EN12278	140 g	x 10
TC025	Double aluminium alloy pulley on ball bearings, designed for zip lines (less than Ø 13 mm) and cables (less than Ø 12 mm).		C€	EN12278	280 g	x 10
TC040	Double swivel on ball bearing.	•	CE	EN362	160 g	x 20
8				EN354		
TC009	Semi-static braided rope Ø 10,5mm - Length on request.	per meter	CE	EN1891 Type A	200 g	x1
					0 0 0	
TC029	Opening rope protection 35 cm. Velcro tape closure. Scalable length by adding elements.				200 g	x 100
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- RESCUE

FALL ARREST AND RESCUE, CONFINED SPACE







Easy to install, it is lightweight and adapts to all types of floors

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TRA20	Telescopic aluminium tripod. Height adjustable from 1.20 m to 1.97 m. Maximum wheelbase on ground 1.89 m. 3 central anchor points, 2 anchor points on the legs. Ability to set the TRA101 or TRA102 adjuster plate or the TRA103 steps.				15.3 kg	0 0 0 0 0 0 0 0 0
TRA22	Telescopic aluminium tripod. Height adjustable from 1.20 m to 1.97 m. Maximum wheelbase on ground 1.89 m. 3 central anchor points, 2 anchor points on the legs. Equipped with TRA101 and TRA102 adjuster plates. TRA103 steps not included.			EN795 C € TYPE B	17.4 kg	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
TRA30	Telescopic aluminium tripod. Height adjustable from 1.74 m to 3.02 m. Maximum wheelbase on ground 2.62 m. 3 central anchor points, 2 anchor points on the legs. Ability to set the TRA101 or TRA102 adjuster plate or the TRA103 steps.	Adjustable		TS16415	20.1 kg	
TRA32	Telescopic aluminium tripod. Height adjustable from 1.74 m to 3.02 m. Maximum wheelbase on ground 2.62 m. 3 central anchor points, 2 anchor points on the legs. Equipped with TRA101 and TRA102 adjuster plates and the TRA103 steps.				22.2 kg	
TRA101	Aluminium mounting plate for a self retracting fall arrest. To set on tripod TRA20 and TRA30.	**************************************			1.3 kg	- KO 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
TRA102	Aluminium mounting plate for hoist. To set on tripod TRA20 and TRA30.			0	860 g	v1
TRA103	Step to access the tripod head and the pulley. Sold individually.			•	500 g	
PROTECTOR ELEVATOR TR01720F		20 m	AM020 x1 AM016		14.6 kg 14.6 kg	
PROTECTOR ELEVATOR TR01720T	Self retractable fall arrester in steel cable with removable rescue winch. Steel case.	20111		EN360 150 kg		
PROTECTOR ELEVATOR TR01730F	Inertia locking system. Energy absorber	30 m	₩ 2 x 1	C € EN1496 CLASS A	18.9 kg	
PROTECTOR ELEVATOR TR01730T	30 n	30 111	→ x 1 AM016		10.0 Kg	
TR003C	Manual winch in galvanized cable. Length 20 m. Non-return system. Folding handle.	20 m		2006//2/556	7.8 kg	0 0 0 0 0
TR003K	Manual winch in galvanized cable. Length 30 m. Non-return system. Folding handle.	30 m		2006/42/EEC	8.1 kg	•
TRBAG3	Storage bag with wheels for TRA30 and TRA32 3m tripod. 260 x 260 x 2100 mm.	One size			1.8 kg	v 10
TRBAG	Storage bag with wheels for tripod. 250 x 250 x 1640 mm.	··· One size		0 1 1 1 1 1	1.5 kg	X IU



There are as many types of flooring as types of applications, our tripods had to be able to adapt: here is the challenge that we had to meet during the creation of this device: complex but exciting! Today the user's testimony proves that we have developed the expected solution.

David Naulin, Fall Protection Product Expert



FALL ARREST AND RESCUE, CONFINED SPACE

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GIRAFE TRG20	Mobile anchor for confined space. 360° rotation. Height adjustable from 1.90 m to 2.50 m. Base sold separately. Option to attach the adapter board TRA101 or TRA102.	Adjustable	C € EN795 TYPE B	25 kg	
TRG01	Rotating base on floor for TRG20 anchorage.			16 kg	x1
TRG02	Rotation base for wall for TRG20 anchorage.	• 40 0 0 0 0		19 kg	
TRG03	Mobile base for confined space for TRG20 anchorage.	• •0 • • • • • • • • • • • • • • • • • • •		36 kg	

GIRAFE TRG20

























TR01720 TR01730





TROO3C TROO3K



TRBAG3

TRG01





TRG02





TRG03





RESCUE & EVACUATION



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TC022	Rapid evacuation triangle. Fits all body types with its 12 adjustment points.	Adjustable S/M/L	EN1498 CLASS B	1.1 kg	
RAH33	Head down harness with rescue sling. 3 attachment points (sternal, dorsal and for rescue). 7 adjustment buckles.		C € EN1498 CLASS C EN361	2 kg	х5
TC105	A seat for a vertical movement. Adjustable footrest length for better stability. Ring D tool holder on both sides.	One size		2.2 kg	x 2
TC102C	Universal rescue stretcher sold with safety belts, mattress and foot rest. Flame retardant.		C € 93/42/EEC	23 kg	х1

TC022





















RAH33























TC105



















TC102C









16









RESCUE & EVACUATION

RESCUEHUB TC063





















2 magnetic brakes →Preservation of brake pads





Length 300 m max.

2 people, ≤ 225 kg Speed ~ 0.8m/ sec (no matter the weight)

→Precise control of the speed of descent for better safety

⇒Improved rescue speed via use with a screwdriver





Designed specifically to facilitate and execute rescue operations

	o [©]	July	V	4	
RESCUEHUB TC063	Descender, rescue and lifting equipment with hand wheel able to lift up to 225 kg. Approved for 2 people. Automatic brake system. 2 centrifugal brake systems. 3 connectors AM030. TC064 rope sold separately by the meter (max length 300 m), sewn thimble loops.	One size	EN341 TYPE1 CLASS A EN1496 CLASS B	3.40 kg	x1
TC064	Static polyamide rope, Ø 9.6 mm for TCO62 and TCO63. Sold by meter, max length 300 m. Loops sewn thimble.	per meter < 160 m	EN1891 Type a		

- 1- Full steering wheel with counterweight to ensure a better stability during the operation.
- 2-3 separate rooms to ensure non-pollution of the mechanical system.
- 3- Quick connectors.
- 4- Can be mounted with an electric screwdriver.



Our sewing system for the end of the rope ensures a non-variation of its resistance over time.





Rescue operations are often burdensome and must be carried out as quickly as possible to provide assistance to the victim. Lending intuitiveness to a tricky application : that's why we designed the TC063.

David Naulin, Fall Protection Product Expert



RESCUE & EVACUATION

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DESCENDER TC062	Descender and rescue equipment for self-rescue. Automatic brake system. 2 centrifugal brake systems. 3 connectors AMO30. TC064 rope sold separately by the meter (max length 300 m), sewn thimble loops.	One size	EN341 Type 1 Class B	1.8 kg	
TC064	Static polyamide rope, Ø 9.6 mm for TCO62 and TCO63. Sold by meter, max length 300 m. Loops sewn thimble.	per meter < 160 m	EN1891 Type A		v1
ROPE ACCESS KIT TC039	Rope access set comprised of: 1 double safety auto locking descender device TC006, 1 anchor ring LV102150, 2 connectors AM025, 1 carrier bag TC008. Rope TC009 sold separately per meter.	One size	EN12841 TYPE C EN341 CLASS A EN362 CLASS B EN795 TYPE B	1kg	٨١

DESCENDER TC062

























2 magnetic brakes ⇒Preservation of brake pads



1.8 kg →Lightweight and easy to set up







(no matter the weight) →Precise control of the speed of descent for better safety



























For use with TC009



For use with HAR36TCP



For use with TC105









For use with TC002,



For use with CAMELEON



ACCESSORIES AND STORAGE BAGS

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TRBAG3	Storage bag with wheels for TRA30 and TRA32 3m tripod. 260 x 260 x 2100 mm.		1.8 kg	x 10
TRBAG	Storage bag with wheels for tripod. 250 x 250 x 1640 mm.		1.5 kg	
RA038_	PVC fabric bag for storage and protection of equipments during transport. Dimensions: 60 x 37 x 17 cm.	One size	512 g	x 20
TC008	PVC fabric bag for storage and protection of equipments during transport. Dimensions: 30 x 65 cm.		1 kg	х5

TRBAG3



































RA038_











TC008



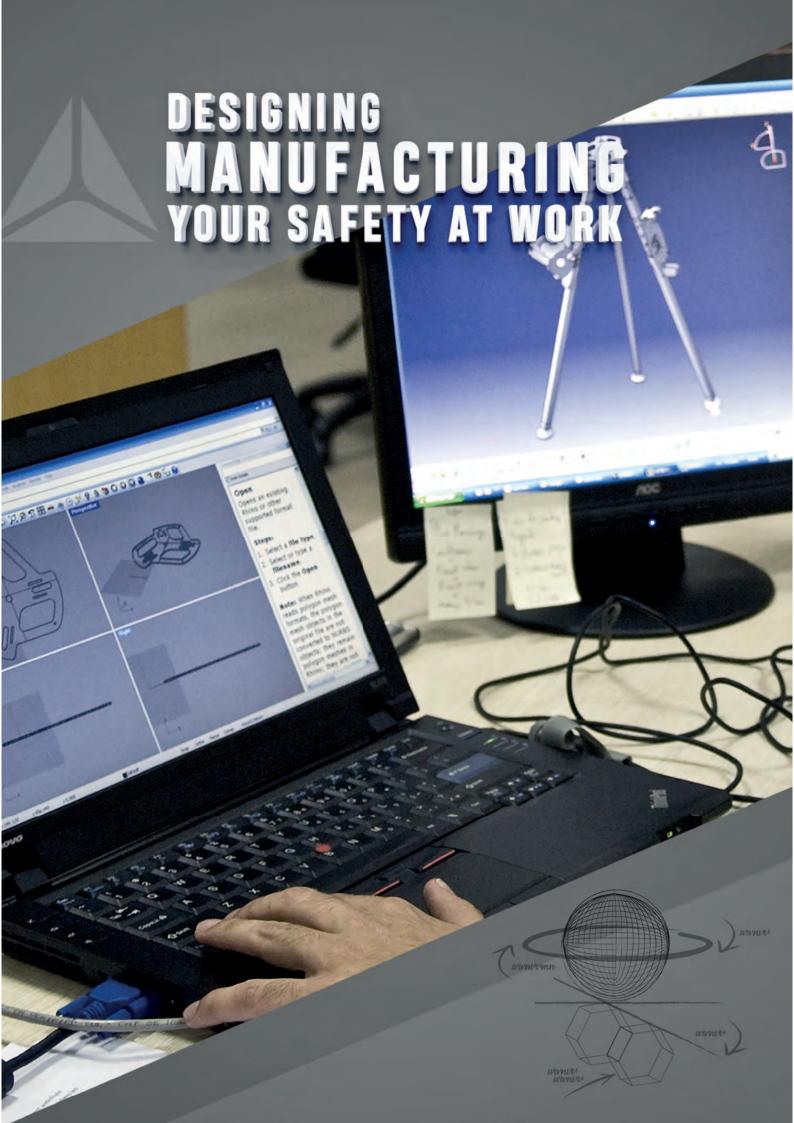












374 • PACKAGING

376 • MERCHANDISING

380 • ALPIC - DPG TRAINING

382 • HEAD PROTECTION

394 • HAND PROTECTION

398 • BODY PROTECTION

404 • FOOT PROTECTION

406 • FALL PROTECTION

409 • GLOSSARY

423 • INDEX

























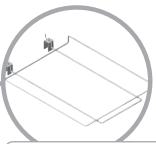


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Subject to conditions, contact us







CORNERSHOES10

H 5,5 x W 32 x D 48 cm 1 support of 2 pairs of shoe without box. Suitable for perforated back panel







CORNERFRAMESHOES

H 10 x W 20 x D 50 cm Set of 4 magnetic shoe supports





CORNERSTOOL

H 40 x W 40 x D 40 cm Seat





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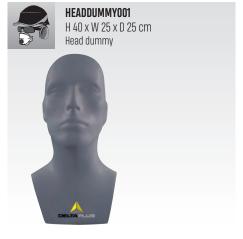
















OUR ALPIC AND DPG TRAINING UNITS ARE AVAILABLE TO MONITOR YOU DURING YOUR TRAINING COURSE TO MATCH YOUR NEEDS AS CLOSE AS POSSIBLE. A TRAINING CENTRE DEDICATED MAINLY TO HEALTH AND SAFETY.





OUR IN PERSON AND E-LEARNING TRAINING OFFERS PPE DESIGNED FOR **BOTH DISTRIBUTORS AND USERS.**

Our offer proposes structured training as follows:

- PRESENT (in the classroom with a trainer): on topics around PPE, sales techniques applied to PPE, risk assessment and recommendations for solutions etc.
- ON SITE (practical training): working at height, working in wind, rescue and evacuation etc.
- E-LEARNING (PPE course): visual inspection of fall arrest PPE, full course of PPE, modules dedicated to the standard PPE environment etc.



KEY OBJECTIVES TO BETTER UNDERSTAND THE ISSUES OF PERSONAL **PROTECTION**

- · Act within the framework of health and safety at work.
- · Argue a range of personal protection.
- Understand the technical features of personal protection.
- Follow a study of work position and recommend a solution for personal protection.
- · Identify and assess risks, adjust the performance of protection.
- · Comply with requirements for recording, storage, maintenance, product control.
- · Read and understand the product certification.
- · Know the legal, regulatory and normative environment.

> THEREFORE WE ADDRESS:

- For sales teams to organize and deepen their knowledge of PPE to develop their sales and give more meaning to their job as their business proposals.
- For companies that use PPE to identify the most appropriate answers to the risks of their work environment, to choose the most efficient products and follow up the necessary review of PPE category III.
- QSE employers and managers, whose teams work at height and who, in accordance with the Labor Code, must be trained in the risks related to their work.

TRAINING IS ESSENTIAL:

For example, particularly when it is about Fall protection PPE Category III against fatal and irreversible risks.

It allows:

- · Awareness of working at height
- · Analysis of risk situations
- · Securing workstations
- · Finding protection solutions
- Providing more productivity
- Providing technical expertise in inspection, maintenance and repair of products



EN365

USERS: "It is essential that staff are trained, that their competence is controlled and they have written instructions enabling them to choose, use, maintain and periodically revise the PPE or other equipment."

AUDITOR: "It is possible that a competent person has to be trained by the manufacturer (i.e.) significant security related knowledge necessary for the disassembly, reassembly, or evaluation of PPE or other equipment."

REGULATORY FRAMEWORK

THE REGULATION (EUROPEAN UNION)

Regulation EU 2016/425) is intended for Personal Protective Equipment (PPE) manufacturers and determines conditions for market trade. It defines the essential requirements in terms of design, manufacture and test methods for PPE, which must comply in order to ensure the safety of the users. The EU Regulation 2016/425 has replaced the EEC Directive 89/686 since 21/4/2018.

STANDARDIZATION

Its aim is to draw up test methods and in the form of standards defining the technical specifications for products. The respect of these standards is evidence of conformity to Regulation EU 2016/425 and allows CE marking.

CATEGORIZATION

Taking into account the level of risk covered, the Regulation defines the PPE categories and determines the various manufacturer's obligations:

- **PPE category 1:** Protection against minor risks.
- PPE category 2: All PPE that are not category 1 or 3.
- PPE category 3: Protection against disability or fatality.

CERTIFICATION PROCEDURE



- Category 1 PPE: Evaluation of conformity by the manufacturer (Module A)
- PPE category 2 and 3: EU type examination of the PPE (Module B) by a notified independent body for which
 compliance (with Regulation EU 2016/425) is verified using standards that are in accordance with the
 regulation. Issuance of the EU Type Examination Certificate (confidential document).
- PPE category 1, 2 and 3: CE marking on the product.
- **PPE category 3**: Control by a notified independent body that ensures compliance of the manufacture with the examined PPE:
 - either monitoring of conformity to the type based on the internal control of production and supervised controls of the product at random intervals (Module C2),
 - or conformity to the type based on quality assurance of the production method (Module D).
- PPE category 1, 2 and 3: Writing by the manufacturer of the EU Compliance Declaration which proves the compliance of the PPE with Regulation EU 2016/425 the user.

The product sheet, the user instructions and the Declaration of Conformity are available online on our website: www.deltaplus.eu

OTHER ACCREDITATIONS (EXCEPT EUROPEAN UNION)

Some of our products are accredited under the regulations of many countries.

The products concerned (and / or their packaging) bear the following markings :

USA	ANSI, ASTM, NIOSH
Argentina	(AR 1983)
Brazil	CA
Ukraine	*
Common Economic Space (Russia, Belarus, Kazakhstan)	EAC

SAFETY EYEWEAR

Safety eyewear provides protection from spray and splatter from particles, liquids and dust, and from chemical product fumes and radiation.

HOW TO PROTECT YOURSELF?

Select the most suitable protective glasses or shields

- Identify the type of risk: sprays, radiation, other, ...
- Determine the type of protection: spectacles-type safety glasses, goggles, face mask, cover goggles, ...
- Note the protective features: scratch-resistant, fog-resistant, tinted, ...
- Select the type of eye-piece: one-piece or double lens
- Choose the frame type: design, classical, ...

STANDARDS

EN166: applies to all types of individual protection of the eye which protects from hazards likely to damage the eye, except for nuclear radiation, x-rays, laser emissions and infrared emitted by low-temperature sources. Does not apply to eye protection for which separate standards exist (anti-laser eve protection, sunglasses for general use, ...).

EN175: Specifications for the safety requirements for eye and face protection equipment for welding and related techniques (filters frames/ media).

EN169: Specifications of level numbers and requirements relating to the transmittance of filters to protect operators for welding and related techniques. Specification of requirements for welding filters with double number of levels.

EN170: Specifications of level numbers and of requirements relating to the transmittance of the filters for protection against ultraviolet radiation.

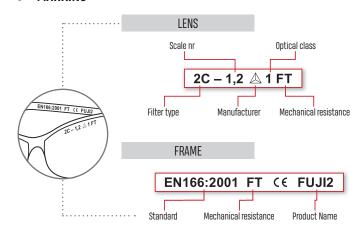
EN172: Specification of level numbers and requirements relating to the transmittance of filters for protection against solar radiation, industrial use.

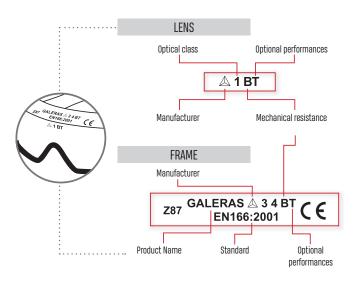
EN379: Specification of the requirements for automatic welding filters, i.e. welding screens with automatic variation of the transmission factor. These screens are intended to protect operators during welding and related techniques.

EN1731: Material specifications, design, performance and test methods for eve and face mesh type protective, for professional use.

ANSI (US American National Standards Institute) 287.1-2003: Specifications and minimum general requirements, test methods, selection, use and maintenance of eve and face protection.

MARKING





· SYMBOL MEANING - EN166:

1: optical class allowing permanent wear of the spectacles

Mandatory performances

- S: Increased robustness: steel ball of 22 mm diameter at 5.1 m/s. (18.36 km/h)
- F: Low energy impact: steel ball of 6 mm diameter at 45 m/s. (162 km/h)
- **B:** Medium energy impact: steel ball of 6 mm diameter at 120 m/s. (432 km/h)
- A: High energy impact: steel ball of 6 mm diameter at 190 m/s. (684 km/h)

Optional performances

- 3: Liquid resistance (droplets or splashes).
- 4: Large dust particles resistance (size of > 5 μm).
- 5: Gas and fine dust particles resistance (size < 5 µm).
- 8: Short circuit electric arc resistance.
- 9: Resistance to splashes of molten metal and penetration of hot solids.
- T: (F B A) Mechanical resistance to extreme temperatures -5°C/+55°C.
- **N:** Resistance to fogging of lenses.
- **K:** Resistance to surface damage by fine particles (anti-scratch).



▶ FILTERS

Special filters can eliminate certain parts of light and a high proportion of the electro-magnetic spectrum (ultraviolet rays, infrared rays...).

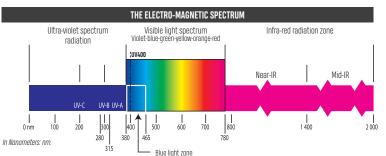
				SPI	ECTACLES LENS MARK	(ING			
	Minimal			UV FILTEF	RS (EN170)	IR FILTERS (EN171)	SUN FILTE	WELDING (EN169)	
le	ens colour	transmission factor	SCALE Nr	2	2C	4	5	6	
		of visible light	OUNCE III	Colours perception may be alterated	Colours perception is not alterated		Without IR protection specification	With IR protection specification	no code nr
CLEAR		80,0%	1,1				5-1,1	6-1,1	
33	INDOOR	74,4%	1,2	2-1,2	2C-1,2	4-1,2			
OKE	3. 4	58,1%	1,4	2-1,4	2C-1,4	4-1,4	5-1,4	6-1,4	
LIGHT SMOKE	OUTDOOR + INDOOR	43,2%	1,7	2-1,7	2C-1,7	4-1,7	5-1,7	6-1,7	
91	+ INDOOR	29,1%	2	2-2	2C-2	4-2	5-2	6-2	
SMOKE	OUTDOOR	17,8%	2,5	2-2,5	2C-2,5	4-2,5	5-2,5	6-2,5	
SM	OUTDOOR	8,0%	3,1				5-3,1	6-3,1	
		8,5%	3	2-3	2C-3	4-3			3
		3,2%	4	2-4	2C-4	4-4	5-4,1	6-4,1	4
		1,2%	5	2-5	2C-5	4-5			5
		0,44%	6			4-6			6
(Bul		0,16%	7			4-7			7
weld		0,061%	8			4-8			8
VERY DARK (for welding)	MIG-TIG	0,023%	9			4-9			9
IY DAR	MI0-110	0,085%	10			4-10			10
VER		0,0032%	11						11
		0,0012%	12						12
		0,00044%	13						13
		0,00016%	14						14
		0,000061%	15						15
		0,000023%	16						16

Lens marking is composed by 2 numbers (separated in the middle by a "-"):

CODE NUMBER: from 2 to 6. Welding lens have no code number.

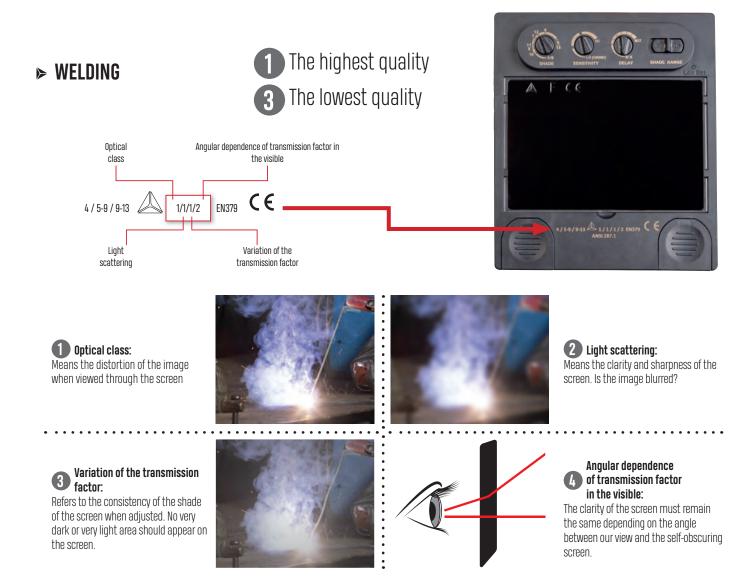
SCALE NUMBER: from 1,1 (the highest % of transmission in visible light, the clearest lens). to 16 (the lowest % of transmission in visible light, the darkest lens).

DELTA PLUS RANGE: The yellow coloured possibilities are available on DELTA PLUS range.



All our polycarbonate glasses filter 99.9% of UV A, B and C from 130 to 380 nm.
Our UV400 glasses carry UV filtration up to 400 nm.

	RISKS TO THE EYE FROM HARMFUL RADIATION										
Zone	Wave Length	Environment	Eyesight damage								
UV-A	315-380 nm	Outdoor work.	Eye fatigue, partial blindness, cataract. Sunshine.								
UV-B	280-315 nm	Sunlight. Industrial environment. Black light tests.	Cataract. Welder flash. Arc flash.								
UV-C	100-280 nm	Industrial environment. Arc welding.	Cornea or crystalline lesions. Loss of eyesight.								
Harmful blue light	380-465 nm	Industrial environment. Computer work (fatigue, VDU). Electrical installations. Outdoor work.	Retinal lesions. Loss of eyesight. Blurring degeneration (age). Retinitis pigmentosis.								
Infra-red	780-1400 nm (near IR) 1400-2000 nm (IR mid)	Electric welding. Molten work (glassmaking, steel production). Micro-wave processes. Sunlight.	Retinal lesions. Blurring degeneration (age). Retinitis pigmentosis (near-IR). Crystalline and cornea lesions (mid-IR).								



> ARC WELDING

AND WELDING																						
	R	ECOMM	IENDEI	USE ()F DIFFE	RENT GI	RADE	NUMBE En169/		ARC	WELI	DING	ACCI	ORDIN	G TO ST	AND	ARDS					
Process									(A)	Curr	ent	amp	erag	е								
1100000	1.5	6	10	15	30	40	60	70	100	125	150	1	175	200	225	250	300	350	400	450	500	600
MMA	8 9				10			11		12			1:	3		14						
MAG		8						9		10			11			12			13			14
TIG		8 9					10			11			12	12 13								
MIG (heavy metals)					9						10 11			1	12		13	14				
MIG (light metals)						10			11				12			13 14						
Arc air gouging		10									11 12			13		14 15						
Plasma cutting		9						1		11		12	2	13		3						
Micro plasma welding		4		5	6	7		8	9		10			11		1	12					

This table is valid under normal conditions of use, in which the distance between the eye of the user and the mass of molten metal is approx. 50 cm and average light is approx. 100 lux.



SKULL PROTECTION

► HOW TO PROTECT YOURSELF?

To choose the correct safety helmet

To identify the risk: falling bumps or combined risks (hearing protection and face protection).

The safety helmet has three functions:

Antipenetration for an effective skull protection.

Shock absorber because the cap and the harness absorb shocks.

Deflector thanks to a suitable design which makes it possible to deflect the fall of an object from the top of the head.

There is in addition a selection of accessories which offers a face and hearing protection.

▶ STANDARDS

EN397	Protective helmets for industry	MANDATORY	Impact*: force transmitted to the headform must not exceed 5 kN at the fall of an object of 5 kg from a 1 m height. The impact energy of the helmet at the end of the test is 49 J. Penetration*: the tip of the mass used in the test (3 kg over 1 m) must not come into contact with the skull Flammability: the helmet should not burn with flame emission more than 5 seconds after removal of the flame * The impact and penetration tests are performed at room temperature, at 50°C and at -10°C
Ë	Protective helm	OPTIONAL	In extreme temperatures: impact and penetration tests are conducted at room temperature at 150°C, at -20°C or -30°C Protects against accidental short-term contact with a live electrical conductor up to 440 VAC. Protects against lateral compression. The maximum deformation of the helmet should be ≤ 40 mm. Resistance to molten metal splashes.
EN50365	Electrical insulation helmets for use in low voltage environment	MANDATORY	Electrically insulating helmets for use near energized equipment not exceeding 1000 VAC or 1500 VDC (appliance class 0). Used simultaneously with other electrically insulating protective equipment, these helmets prevent dangerous currents passing through to the person's head. These optional electrical insulation tests are more stringent than the EN397 and they complement them. (2 triangle marking, Class 0).
ANSI/ISEA 289.1	(American National Standards Institute) American standard for industrial head protection	MANDATORY	Depending on the type and class of the helmet:
ANSI/IS	(American Nat Inst American stand head pi	OPTIONAL	Protection against mechanical risk (impact, penetration, crushing), flammability, electrical insulation.
EN812	Bump caps for industry	MANDATORY	Impact*: This PPE protects against impacts from knocks against structures or objects. It does not protect from the impact of a falling object at all. The impact energy of the cap at the end of the test reached 12.25 J. Penetration*: the tip of the mass used in the test (0.5 kg over 0.5 m) must not come into contact with the skull * The impact and penetration tests are performed at room temperature, at 50°C and at -10°C Should in no way be a substitute for an industry type helmet (EN397).
	део дипв	OPTIONAL	In extreme temperatures: impact and penetration tests are conducted at room temperature at -20°C or -30°C Protects against accidental short-term contact with a live electrical conductor up to 440 VAC Flammability: the helmet must not burn with flame emission more than 5 seconds after removal of the flame (F marking)

> HELMET MARKING ILLUSTRATION





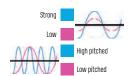
HEARING PROTECTION

Noise-related hearing loss is the most common occupational disease in Europe and North America, accounting for almost one-third of all work-related illnesses. These disorders can lead to long-lasting effects causing stress, fatigue or isolation that significantly increases the risk of work-related accidents caused by other factors. Hearing loss is irreversible and often detected late, so PPE covering this risk is classified as Category III..

> THE EAR AND SOUND

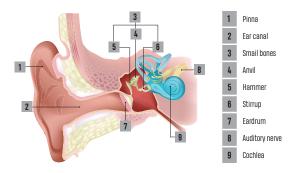
Noise, as a vibratory phenomenon is characterized by:

- **Its intensity** (in decibels [dB]) corresponds to the amplitude of the vibrations emitted by the sound source. O dB corresponds to the minimum sound level audible by the human ear. The pain threshold is 120 dB and the ear can be damaged from 85 dB.
- Its frequency (in Hertz [Hz]) which will define the perceived height. The higher the frequency and the higher pitched the sound, the lower it is and the lower pitched it will be. The human ear is able to perceive sounds at frequencies between 20 Hz (very low pitch) and 20,000 Hz (very high pitch).
- Its duration and its variation, which makes it possible to differentiate very brief sounds, of a duration in the order of a second, such as impulse noises (a shot, impacts) of sounds that have longer durations (hours, or a day) for which it is important to consider the resulting dose of noise received.



The ear can be broken down into three distinct parts:

- The outer ear consisting of the horn and the ear canal
- The middle ear between the eardrum and the inner ear. It is filled with air and allows, using the ossicles, to transform the aerial vibrations into structure borne vibrations that can be analyzed by the inner ear.
- The inner ear, the heart of the auditory system, consisting of a cavity filled with liquid containing the cochlea where the body of Corti is found. Within it, the vibrations of the liquid transmitted to the ossicles are picked up by the hair cells which select them by frequency. The information is then conducted by the auditory nerve to the cerebral cortex which can interpret it.



▶ DB(A)

The human ear has a particular sensitivity to each frequency range. At moderate sound levels, it is less sensitive to low pitched sounds. To represent this particular sensitivity, the noise measurements and standards use a weighting of the measured sound levels called weighting A. The thus weighted decibels are denoted dB (A).

► HOW TO PROTECT YOURSELF?

To choose the correct product for hearing protection.

- Identify the nature of the noise: stable, fluctuating, intermittent, pulse.
- Measure the noise at the working station: intensity (dB) and volume (Hz).
- · Determine the exposure time.
- Calculate the reduction necessary to return on an acceptable ambient level (see Directive 2003/10/CE).

Minimum require	Requirements Directive 2003/10/EC: Minimum requirements for the protection of workers against the risks related to noise exposure								
8 hours exposure time at ≥ 85 dB(A)	8 hours exposure time at ≥ 80 dB(A) and < 85 dB(A)	8 hours exposure time at > 75 dB(A) and < 80 dB(A)							
Obligatory hearing protection	Hearing protectors available to the worker	Hearing protection recommended							

The performance of the hearing protector (its attenuation level) must be adapted to the risk assessment of the workplace. It should bring the noise level to a level that is not harmful to health, while avoiding overprotection would cut the operator from his environment (warnings, communication...)

▶ REGULATORY DAILY DOSE AUTHORIZED ACCORDING TO THE SOUND LEVEL

CONTINUOUS SOUNDS

Equivalent continuous sound pressure level in dB (A)	85 dB(A)	91 dB(A)	100 dB(A)	112 dB(A)
Daily exposure duration equivalent to an exposure of 85 dB	8 hours	2 hours	15 minutes	1 minute
Peak sound pressure level in dB	135 dB	115 dB	95 dB	90 dB
Limited number of pulses or shocks for 8 hours	1	100	10,000	30,000

IMPULSE SOUNDS



WEARING RATE

Hearing protection decreases very rapidly when the protector is not worn continuously



2 mn of non-wearing (over 8h)

=> reduction of efficacy of the protector by 25%

2 hours of non-wearing (over 8 hours)

=> loss of efficacy of the protector by 75%

WEARING METHOD

When hearing protection equipment can be worn in several ways (on the head and under the chin for example), it must be tested for each method of wearing.

▶ OTH:



Over the head

➤ UTC:



Under the chin

▶ BTH:



Behind the head

► STANDARDS

- EN352: Exigences of safety and tests.
- EN352-1: the ear-muffs.
- EN352-2: the earplugs.
- EN352-3: the adjustable head defenders for the safety helmets.
- **EN352-4:** Noise cancelling headphones with level dependent attenuation.
- EN352-6: Earmuffs with electrical audio input.
- EN352-8: Audio enabled earmuffs.

These standards establish requirements with regards to the manufacture, the design, performances and test methods.

They stipulate the putting at disposal relative to the characteristics.

• EN458: Hearing protection

Recommendations for selection, use and maintenance.

· ANSI (US American National Standards institute) S3.19 - 1974

This standard specifies the test method for determining the level of noise attenuation (NRR Noise Reduction Rating) of the hearing protection, as recommended by the EPA (U.S. Environmental Protection Agency).

SOUND LEVEL MITIGATION VALUES



► HOW DO YOU USE THE ATTENUATION VALUES?

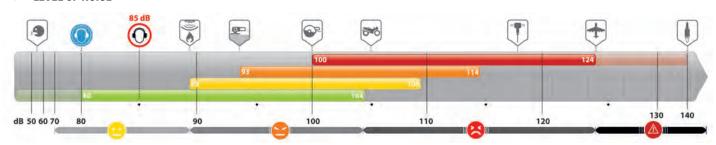
3 indicators, from the simplest to the most precise are made available to the user.

- SNR (Single Number Rating): Single average value of attenuation.
- HML: Attenuation values expressed in terms of average levels of frequency.
 - **H:** Attenuation of PPE at high frequencies (pitched noises)
 - M: Attenuation of PPE at medium frequencies
 - L: Attenuation of PPE at low frequencies (bass sounds)
- **APV (Assumed Protection Value)**: Attenuation values expressed on 8 specific frequency levels *(see the data sheet of the hearing protector).*

DOUBLE PROTECTION

When wearing a single hearing protector is not enough, it is possible to combine them. The attenuation resulting from the simultaneous wearing of earplugs with a B SNR and a noise-cancelling headset with an ST SNR is calculated by the following formula: $33 \times loq ((0.4 \times B) + (0.1 \times ST))$

▶ LEVEL OF NOISE



RESPIRATORY PROTECTION

European Directives: End user's obligations

89/391: Identify and assess the risk, take preventive and protective measures, inform and train the workers. 2004/37: Risks related to exposure to carcinogens or mutagens at work: hazard identification, "limit values", respiratory protection. 89/656: Select and use the appropriate and compliant PPE, inform and train people, check and replace the PPE when necessary.

> STANDARDS

The main standards concerning the respiratory apparatuses

• EN136: Overall masks

It contains laboratory tests and practical performance tests to check the conformity with resistance to temperature, to impacts, to flame, to thermal radiation, to traction, resistance to cleansers and disinfectants. Furthermore, the visual inspection must concern the marking and the manufacturers' information guide.

• EN140: Half-masks and quarter-masks

It contains laboratory tests and practical performance tests to check the conformity with resistance to impacts, to cleaners and disinfectants, to temperature, to flame and respiratory resistance.

• EN14387: Gas filters and compound filters

It contains laboratory tests to check the conformity with resistance to impacts, to temperature, to humidity and corrosive atmospheres, and with mechanical and respiratory resistance.

• EN143: Filters against particles

It contains laboratory tests to check the conformity with resistance to impacts, to temperature, to humidity and corrosive atmospheres and with mechanical and respiratory resistance.

• EN149: Filtering half-masks

It contains laboratory tests to check the conformity with resistance to impacts, to cleansers and disinfectants, to temperature, to flame and with respiratory resistance.

• EN405: Half-masks fitted with valves and gas filters or compound filters

It contains laboratory tests to check the conformity with resistance to handling and wear, to impacts, to flame and with respiratory resistance.

• EN148-1: Standard threaded joint

This standard is specific to the standard connection system of the cartridge for

NIOSH (US National Institute for Occupational Safety) 42 CFR Part84 Filtering facial parts, multiple levels of protection (non exhaustive list):

N95: Filter at least 95% of the particles (non-oily) suspended in the air.

PRODUCTS	STANDARDS	TOTAL INWARD Leakage** (%)	NOMINAL Protection Factor*
FFP1	EN149	22	4
FFP2	EN149	8	12
FFP3	EN149	2	50
½ mask P1 ½ mask gas XP1	EN140 EN14387 EN143 + A1	22	4
½ mask P2 ½ mask gas XP2	EN140 EN14387 EN143 + A1	8	12
½ mask P3 ½ mask gas XP3	EN140 EN14387 EN143 + A1	2	48
½ mask gas X	EN140 En14387	2	50
Full Face Mask P3	EN136 EN143 + A1	0,1	1000
Full Face Mask gaz XP3	EN136 EN14387 EN143 + A1	0,1	1000
Full Face Mask gaz X	EN136	0,05	2000

*NPF: Nominal Protection Factor corresponds to the level of protection tested in the laboratory.

The Level of APF, Assigned Protection Factor, might be different according local regulations **TIL: Leakage of the ambient atmosphere into the respiratory interface measured in laboratory.

• N99: Filter at least 99% of the particles (non-oily) suspended in the air.

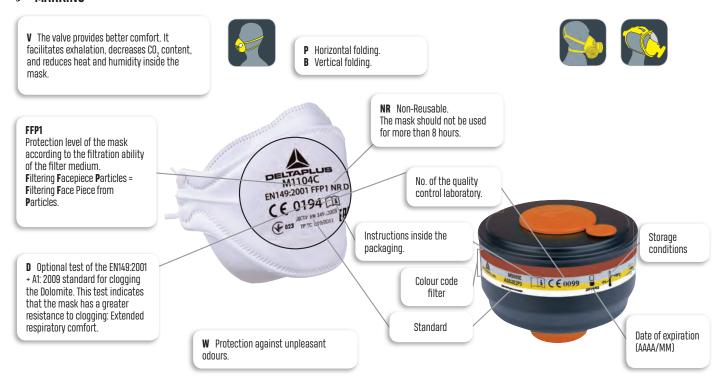


http://respiratory.deltaplus.eu



RESPIRATORY PROTECTION

► MARKING



▶ GAS AND VAPOUR FILTER

Each filter or cartridge is identified with a colour code.

TYPE		TYPE OF PROTECTION	GAS AND VAPOUR			
A		rom organic gases and vapours ling point is > 65°C	Alcohol, acetic acid, ether, hexane, toluene, xylene, white spirits, thiophenol*			
AX		rom organic gases and vapours ling point is ≤ 65°C	Acetone, acetaldehyde, ethyl ether, butane, methanol, trichloromethane*			
В	Protects fr vapours	rom inorganic gases and	Chlorine, chlorine dioxide, fluorine, formaldehyde, phosphine*			
E		rom sulphur dioxide and some urs and gases	Sulphur dioxide*			
K	Protects fr derivatives	rom ammoniac and some amine s	Ammonia, ethylamine, methylamine*			
Hg	Protection	from mercury vapours	Mercury and mercury compounds*			
	FILTE	R ABSORPTION CLASS FOR (GASES AND VAPOURS			
Clas	ss 1	Low capacity filter (pollutant concentration < 0.1% o	r 1000 ppm).			
Clas	s 2	Average capacity filter (pollutant concentration < 0.5% o	or 5000 ppm).			
Clas	s 3	High capacity filter (pollutant concentration < 0.1% o	r 10 000 ppm).			
DD	m	Concentration in parts per millior	1			

DUST AND AEROSOL FILTERS

PROTECTION

P1	Protects from non-toxic dust and / or water-based aerosols.	Cement dust, flour, calcium carbonate (chalk), graphite, cotton, concrete*				
P2	Protects from slightly toxic or irritating solid aerosols and / or liquids.	Untreated softwood, grinding, cutting, welding, milling, coal, fibre glass, mineral fibre, graphite, pesticide powder*				
P3	Protects from solid aerosols and / or liquids listed as toxic.	Asbestos (without manipulation), pesticide powder, biological agents, pharmaceutical powder, treated wood, hard wood (exotic), chrome, lime, lead, graphite*				
		Manganese, kaolin, sodium hydroxide (caustic soda), quartz, silica*				

PARTICLES



^{*}This type of usage is indicative and cannot engage Delta Plus Responsibility.



http://respiratory.deltaplus.eu

USER GUIDE FOR BREATHING APPARATUS FILTER FOR POLLUTING **SUBSTANCES**

Substances	Chemical formula	N° CAS	Gas filter	Particle: filter	MC/DM*	OEL	Unit of
- chloro- 2,3- epoxy- propane	C3H50Cl	106-89-8	А	P3	MC	VLE=2	ppi
1,1-Trifluoro-2-bromo-2-chloroethane	CF3CHBrCl	151-67-7			ARI or A AIR	2,000	ppi
1,2,2- tetrabromoethane	CHBr2CHBr2	79-27-6	Α	P3	MC	1	ppi
1'-Ethylene-2,2'-bipyridyllium dibromide	C12H12N2Br2	85-00-7		P3	MC	0,50	mg/
2,3,4,5,6,7,8-octachloronaphthalene	C10C18	2234-13-1	Α	P3	MC	0	mg/
.2,4- Trichlorobenzene	C6H3CI3	120-82-1	Α	P3	MC	5,00	pp
2,4-Benzenetricarboxylic anhydride	C9H4O5	552-30-7	Α	P3	MC	0,04	mg/
.2-Benzenedicarboxylic anhydride	C6H4(CO)2O	85-44-9		P3	MC	1,00	pp
2-Dibromo-2,2-dichloroethyl dimethyl phosphate	(CH3O)2P(O)DCHBrCBrCl2	300-76-5	A	P3	MC	3,00	mg.
2-dichloroethane	CICH2CH2CI	107-06-2	Α		MC	10,00	pp
2-Dihydroxybenzene	C6H4(OH)2	120-80-9	Α	P3	MC	5	mg.
2-Ethanediamine	NH2CH2CH2NH2	107-15-3	К		MC	10,00	pp
2-ethanediol	HOCH2CH2OH	107-21-1	Α	P3	MC	50,00	PE
3- butadiene	CH2=CHCH=CH2	106-99-0	AX		MC	VLE=1	PP
.4- dichlorobenzene	C8 H4 CI2	106-46-7	А		MC	75,00	PP
4-benzenediamine	C6H4(NH2)2	106-50-3	A	P3	MC	0	mg.
4-dihydroxybenzene	C6H4(OH)2	123-31-9	A	P3	MC	2	mg
	C6H4(NO2)2	100-25-4	_	P3	DM or MC	1,000	_
4-dinitrobenzene			A				mg,
5-diisocyanatonaphthalene	C10H6(NCO)2	3173-72-6	A2B2	P3	MC	0,10	mg.
5-pentanedial	OCH(CH2)3CHO	111-30-8	A2	P3	MC	0,20	pp
6- hexanolactam	C6H11NO	105-60-2	Α	P3	MC	0,22	pp
Chloro-2-methylbenzene	CIO8H4CH3	95-49-8	Α		MC	50,00	pp
Chloro-2-propene	CH2=CHCH2CI	107-05-1	AX		MC	1,00	pp
Hydroxybutane	CH3CH2CH2CH2OH	71-36-3	A		MC	50,00	pp
Methoxy-2-propanol	CH3OCH2CHCH3	107-98-2	А		MC	100	pp
Methylpropyl acetate	CH3COOCH(CH3)CH2CH3	105-46-4	A	P3	DM or MC	200	PP
Propen-3-ol	CH2=CHCH2OH	107-18-6	A		MC	2	pp
Propyn-3-ol	C3H3OH	107-19-7	A		MC	1	PF
- butoxyethanol	C4H9OCH2CH2OH	111-76-2	A	P3	MC	25,00	PF
- Diethylaminoethanol	(C2H5)2NCH2CH2OH	100-37-8	K	ru	MC	10,00	
	CH3COOCH2CH2CH2CH3	111-15-9	A		MC DM	10,00	pp
- ethoxyethyl acetate					1.10		pp
- ethylhexyl chloroformate	Cl1 C7 O2 H12	24468-13-1	A	P3	DM or MC	1	PE
- furaldehyde	C5H4O2	98-01-1	A		MC	2,00	pp
- Methoxyethyl acetate	CH3COOCH2CH2OCH3	110-49-6	A		MC	0	pp
- Methylaziridine	C3H7N	75-55-8	К	P3	MC	2,00	pp
- methylpentane- 2,4- diol	(CH3)2COHCH2CHOHCH3	107-41-5	Α		DM or MC	25	pp
- nitronaphthalene	C10H7N02	581-89-5	A	Р	DM or MC		
- Pyridylamine	NH2C5H4N	504-29-0	A	P3	DM or MC	2	mg,
,Z-Diaminodiethylamine	NH2CH2CH2)2NH	111-40-0	ABEK	P3	MC	1.00	PE
.2'-dihydroxydiethyamine	(HOCH2CH2)2NH	111-42-2	К	P3	MC	3	PP
,2-Dichlorovinyl dimethyl phosphete	(CH30)2P(0)0CH=CCI2	62-73-7	A	P3	MC	0.10	PP
,3- epoxypropyl isopropyl ether	C6H12O2	4016-14-2	A		MC	50	pp
3.4,5,6-pentachlorophenol	CBCI5OH	87-86-5	A	P3	MC	1	mg,
,3-Dihydro-2,2-dimethyl-7-benzofuranyl	GUGIGUTI	07-00-3	М	ru	MPD	'	iliya
	alanaulanaulanaul	01 85 8			110	40	
.4- dichlorophenoxyacetic acid	CI2C6H3OCH2COOH	94-75-7		P3	MC	10	mg.
.4,5-Trichlorophenoxyacetic acid	Cl3C6H2OCH2COOH	93-76-5		P3	DM or MC	10	mg.
,4,6- trinitrophenol	(NO2)3C6H2OH	88-89-1		P3	MC	0	mg.
,4,6-tetryl	(NO2)3C6H2N(NO2)CH3	479-45-8	Α	P3	MC	2	mg.
,5-Furanedione	C4 H2 O3	108-31-6	A	P3	MC	0,25	pp
-Aminotoluene	CH3C6H4NH2	95-53-4	A	P3	MC	2,00	pp
-butanol	CH3CH(OH)CH2CH3	78-92-2	Α		MC	100,00	pp
-Carbomethoxy-1-methylvinyl dimethyl phosphate	C7H13P06	7786-34-7	Α	P3	MC	0	pp
-Chloro-1,1,2-Trifluoroethyl difluoromethyl ether	CHF20CF2CHCIF	13838-16-9			ARI or A AIR	2,000	pp
-Chloro-1,3-butadiene	CH2=CCICH=CH2	126-99-8	AX	P3	MC	VLE = 1	PP
-chloroacetaldehyde	CICH2CHO	107-20-0	A		MC	1,00	pp
Chloroethanol	CH2CICH2OH	107-07-3	A		MC	1,00	PF
-hydroxymethylfuran	C5H602	98-00-0	A		MC	10,00	DI
		108-20-3	A		MC	500,00	
-Isopropoxy propane -Mercaptoacetic acid	(CH3)2CH0CH(CH3)2 HSCH2CDOH	68-11-1	A2B2	P3	MC	1	pp
			_	rJ			pp
-methoxyethanol	CH30CH2CH20H	109-86-4	A		MC	5,00	pp
-Methylacrylic acid	CH2=C(CH3)COOH	79-41-4	Α	P3	MC	20	pp
-methylpropenenitrile	CH2=C(CH3)CN	126-98-7	AB 450	P3	MC	1	pp
Methylpropyl acetate	CH3COOCH2CH(CH3)2	110-19-0	Α		MC	150.00	pp
-Oxetanone	C3H4O2	57-57-8			ARI or A AIR		
-Pentanol acetate	CH3COOCH(CH3)C3H7	626-38-0	Α		MC	125	pp
Phenyl propylene	C8H5C(CH3)=CH2	98-83-9	Α		MC	50,00	pp
-propenamide	CH2=CHCONH2	79-06-1	А	P3	MC	0,30	mg.
-propenenitrile	CH2=CHCN	107-13-1	A	P3	MC	2,00	pp
-Propenoic acid	CH2=CHCOOH	79-10-7	A	. 0	DM or MC	2,000	PE
-Properioric acid	CH3COOCH(CH3)2	108-21-4	A		MC DM	250.00 (ST)	_
-Propynyl alcohol	СЗНЗОН	107-19-7	A	2.5	MC	1	pp
,3'- dichlorobenzidine salts	NH2CIC6H3C6H3CINH2	91-94-1	A	P3	MC		
,3'-dimethylbenzidine	C14H16N2	119-93-7	Α	P3	MC	0,02	mg
,5,5-trimethylcyclohex- 2- enone	C9H14O	78-59-1	А		MC	4,00	pp
a,4,7,7a-Tetrahydro-4,7-methanoindene	C10 H12	77-73-6	А	P3	MC	5,00	pp
-Heptanone	CH3CH2CO[CH2]3CH3	106-35-4	A		MC	50	pp
	CH3COOCH2CH2CH(CH3)2	123-92-2	A		DM or MC	100	pp
-Methyl-1-butanol acetate							PH
-Methyl-1-butanol acetate -Methyl-5-heptanone	C2H5COCH2CH(CH3)CH2CH3	541-85-5	A		MC	25	pp

TWA

TIME WEIGHTED AVERAGE Average Exposure limit over an **8 hour** time period



SHORT TERM EXPOSURE LIMIT Should not be longer than **15 minutes**Should not occur more than 4 times per day with at least 60 minutes between exposures



Substances	Chemical formula	N° CAS	Gas filter	Particles filter	MC/DM*	OEL	Unit of measure- ment
4,4- Methylenedianiline (mda)	CH2(C6H4NH2)2	101-77-9	А	P3	MC	0,01	ppm
4-Hydroxy-4-Methyl-2-Pentanone	CH3COCH2C(CH3)20H	123-42-2	Α		MC	50	ppm
4-Nitroaniline	C8 H6 N2 O2	100-01-6	A	P3	MC	6	mg/m3
4-nitrochlorobenzene 5-Methyl-2-hexanone	CIC6H4NO2 CH3COCH2CH2CH(CH3)2	100-00-5 110-12-3	AB A	P3	MC MC	1,00 50	mg/m3
6,9-methano- 2,4,3-benzo-dioxathiepin-3-oxide	C9H6Cl6O3S	115-29-7	A	P3	MC	0	ppm mg/m3
Acetaldehyde	CH3CH0	75-07-0	AX		MC	100	ppm
Acetic acid	CH3COOH	64-19-7	А	P3	MC	10.00	ppm
Acetic ester	CH3C00C2H5	141-78-6	Α		MC	400.00	ppm
Acetic oxide	(CH3CO)2O	108-24-7	Α		MC	5	ppm
Acetylene	C2H2	74-86-2	AV (FO		ARI or A AIR MC	2500	ppm
Acraldehyde Age	CH2=CHCH0 C6H1002	107-02-8 106-92-3	AX 450		MC	5	ppm
Aldrin	C12H8CI6	309-00-2	AB	P3	DM or MC	0.25	ppm mg/m3
Alpha-chlorotoluene	C8H5CH2CI	100-44-7	A	10	MC	1	ppm
Alpha-chloroacetophenone	C6H5COCH2CI	532-27-4	ABEK	P3	MC	0,30	ppm
Alpha-starch	(C6H10O5)n	9005-25-8		P3	MC	5,00	mg/m3
Aluminium metal (respirable dust)	Al	7429-90-5		P2/P3	DM or MC	5,000	mg/m3
Aluminum trioxide	Al203	1344-28-1		P3	DM or MC	4	mg/m3
Amidocyanogen Aminocyclohexane	NH2CN C6H11NH2	420-04-2 108-91-8	A	P3	DM or MC DM or MC	2,000	mg/m3 ppm
Aminodimethylbenzene	(CH3)2CBH3NH2	1300-73-8	K		DM or MC	2	ppm
Aminomethane	CH3NH2	74-89-5	К		MC	10	ppm
Ammonia	NH3	7664-41-7	К		MC	25	ppm
Ammonium amidosulfonate	NH40S02NH2	7773-06-0		P3	MC	5,00	mg/m3
Ammonium chloride	NH4CI	12125-02-9	К	Р	MC	10	mg/m3
Amyl acetic ether	CH3C00(CH2)4CH3	628-63-7	A		MC	100	ppm
Anhydrous hydrogen bromide; Anone	H Br 06H100	10035-10-6 108-94-1	B	P3	MC DM or MC	3 25.000	ppm ppm
Antimony and compounds (as sb)	Sb	7440-36-0	H	P3	MC MC	MEL	mg/m3
Antimony hydride	SbH3	7803-52-3			ARI or A AIR	0	ppm
Antimony trioxide	03 Sb2	1309-64-4		P3	DM or MC	0,500	mg/m3
Argon	Ar	7440-37-1			ARI or A AIR		ppm
Arsenic & compounds except arsine	As	7440-38-2		P3	MC	0,15	mg/m3
Arsenic trihydride	AsH3	7784-42-1			ARI or A AIR	0,020	ppm
Arsenic trioxide Artificial barite	As203 BaS04	1327-53-3 7727-43-7		P3	ARI or A AIR MC	0,200	mg/m3 mg/m3
ASBESTOS, amiante	Hydrated mineral silicates	1332-21-4	PAPR	P3	MC	MEL	fibres/ml
Asphalt, petroleum fumes	n/a	8052-42-4			ARI or A AIR	5	mg/m3
Atrazine (iso)	C8H14CIN5	1912-24-9		P3	DM or MC	5,000	mg/m3
Azimethylene	CH2N2	334-88-3	ABEK	P3	MC	0,20	ppm
Azirane	C2H5N	151-56-4	K 450		MC		ppm
Azium	NaN3 C2H4N4O2/NH2CON=NCONH2	26628-22-8	١.	P3	DM or MC MC	0	mg/m3
Azodicarbonamide Barium compounds soluble (as ba)	Ba	123-77-3 7440-39-3	A	P2/P3	DM or MC	MEL 1	mg/m3 mg/m3
Basudin®	C12H21N2O3PS	333-41-5	BE	P3	MC	0,10	mg/m3
BCME (Bis (chloromethyl) ETHER)	(CH2CI)20	542-88-1	A2	P3	MC	0,05	mg/m3
Benomyl (iso)	C14H18N4O3	17804-35-2	Α	P3	DM or MC	5,000	mg/m3
Benzenamine	CBH5NH2	62-53-3	Α	P3	MC	2,00	ppm
Benzene	CBHB	71-43-2	A 450		MC	1,00	ppm
Benzene chloride Benzene hexahydride	C6H5CI C6 H12	108-90-7 110-82-7	A		DM or MC DM or MC	75,000 300,000	ppm
Benzyl butyl phthalate	C19 H20 O4	85-68-7	A	Р	DM or MC	5,000	ppm mg/m3
Beryllium and compounds	Be	7440-41-7		P3	MC	VLE	mg/m3
Beta-Aminoethyl alcohol	NH2CH2CH2OH	141-43-5	А		MC	3	ppm
Beta-Hydroxypropyl acrylate	CH2=CHCOOCH2CHOHCH3	999-61-1	А		MC	1	ppm
BGE	C7 H14 O2	2426-08-6	Α		MC	5,60	ppm
Biotite	H2KAl3(SiO4)3	12001-26-2		P3	DM or MC	3,000	mg/m3
Bipotassium chromate Bis(2- ethylhexyl) phthalate	K2 Cr 04 C24H38O4	7789-00-6		P3	ARI or A AIR DM or MC	5 000	mg/m3
Bis(2,3- epoxypropyl) ether	C8H1003	117-81-7 2238-07-5	A	P3	MC	5,000 0,10	mg/m3 ppm
Bismuth telluride	Bi2Te3	1304-82-1	ļ ^	P3	MC	5,00	mg/m3
Borates, (tetra) sodium salts	Na2B407	1330-43-4		P3	DM or MC	1,000	mg/m3
Borax decahydrate	Na2B407 • 10H20	1303-96-4		P3	MC	5,00	mg/m3
Boric anhydride	B203	1303-86-2		P3	DM or MC	10,000	mg/m3
Bornan- 2- one	C10H160	76-22-2	Α	P3	DM or MC	2,000	mg/m3
Boron fluoride	BF3	7637 07 02		DO.	ARI or A AIR	1,000	ppm
Boron hydride Bromacil (iso)	B2H6 C9H13BrN2O2	19287-45-7 314-40-9	B AB	P3	MC DM or MC	0,10 1,000	ppm ppm
Bromine	Br2	7726-95-6	В	P3	MC MC	0,10	ppm
Bromine fluoride	BrF5	7789-30-2	AX		MC	0,10	ppm
Bromoethane	CH3CH2Br	74-96-4	AX		MC	200,00	ppm
			AV		DM or MC	5,000	ppm
Bromoethylene	CH2=CHBr	593-60-2	AX				
Bromoform	CH2=CHBr CHBr3	75-25-2	А		MC	0,50	ppm
Bromoform Bromomethane	CH2=CHBr CHBr3 CH3Br	75-25-2 74-83-9	A AX		MC MC	0,50 5	ppm
Bromoform Bromomethane Butane	CH2=CHBr CHBr3 CH3Br CH3CH2CH3CH3	75-25-2 74-83-9 106-97-8	A AX AX		MC MC DM or MC	0,50 5 600,000	ppm ppm
Bromoform Bromomethane	CH2=CHBr CHBr3 CH3Br	75-25-2 74-83-9	A AX	P3	MC MC	0,50 5	ppm

^{*}MC/DM = Overall masks / Half-mask



Substances	Chemical formula	N° CAS		Particle: filter	MC/DM*	OEL	Unitof measure
Butyl methyl ketone /MBK	CH3C0[CH2]3CH3	591-78-6	А		MC	5,00	ppm
Butylamine Cadmium	CH3CH2CH2CH2NH2	109-73-9	BK	P3	MC DM or MC	5,00	ppm
Caesium hydroxide	Cd S CsOH	7440-43-9 21351-79-1	В	P3	DM or MC	VLE=0,05 2,000	mg/n mg/n
Calcium carbimide	CaCN2	158-62-7	ь		ARI or A AIR	0,500	mg/n
Calcium carbonate	CaCO3	1317-65-3		P3	DM or MC	5,000	mg/n
Calcium hydrate	Ca(OH)2	1305-62-0		P3	DM or MC	5,000	mg/n
Calcium monosilicate	CaSiO3	1344-95-2		P2/P3	DM or MC	5,000	mg/n
Calcium sulfate hemihydrate	CaSO4 • 0.5H2O	26499-65-0		P3	DM or MC	5,000	mg/n
Captafol (iso)	C10H9Cl14N02S	2425-06-1	Α		MC	0,10	mg/n
Carbaryl (iso)	CH3NHCOOC10H7	63-25-2	A	D0	DM or MC	5,000	mg/r
Carbofuran (iso) Carbolic acid	C12H15NO3 C6H5OH	1563-66-2 108-95-2	A	P3 P3	DM or MC MC	0,100 5	mg/n
Carbon black	C	1333-86-4	А	P3	MC	3,50	mg/n
Carbon dioxide	CO2	124-38-9		10	ARI or A AIR	5000,000	ppn
Carbon disulphide	C S2	75-15-0	AX		MC	10,00	ppn
Carbon hexachloride	CI3CCCI3	67-72-1	А	P3	MC	1,00	ppn
Carbon monoxide	CO	630-08-0			ARI or A AIR	30,000	ppn
Carbon tetrachloride	CC14	56-23-5	A		MC	2,00	ppn
Carbonyl chloride	COCI2	75-44-5	В	P3	MC	0,10	ppn
Carboxyethane	CH3CH2COOH	79-09-4	А	P3	MC	10	ppn
CB	CH2BrCl	74-97-5	A		MC	200,00	ppn
Cd: Cadmium	Cd0/Cd	1306-19-0		P3	MC	VLE=0,05	mg/r
Dellosolve® Dellulose	C2H50CH2CH2OH (C6H10O5)n	110-80-5 9004-34-6	A	P3	MC DM or MC	0,50 5,000	ppn mg/r
Cement		65997-15-1		P2/P3	DM or MC	10,000	mg/r
Chlordan	as Portland Cement C10H6Cl8	57-74-9	A	P2/P3	DM or MC	0,500	mg/r
Chlorine	CI2	7782-50-5	В	LO	MC MC	0,50	ppn
Chlorine fluoride	CIF3	7790-91-2	В		MC	0,30	ppn
Chlorine axide	CI 02	10049-04-4	В		DM or MC	0,100	ppn
Chloroacetic acid chloride	CICH2COCI	79-04-9	A	P3	MC	0,05	ppn
Chlorocyanide	CICN	506-77-4	B 450		MC	0,30	ppn
Chlorodimethyl ether	CH30CH2CI	107-30-2			ARI or A AIR		
Chloroethane	CH3CH2CI	75-00-3	AX		DM or MC	1000,000	ppn
Chloroéthanoic acid	CICH2COOH	79-11-8	А	P3	MC	0	ppn
Chloroethene	CH2=CHCI	75-01-4	AX		MC	1,00	ppn
Chloroform	CHCI3	67-66-3	AX		MC	2,00	ppn
Chloromethane	CH3CI	74-87-3			ARI or A AIR	100,000	ppn
Chloropicrin	CCI3NO2	76-06-2	A	P3	MC	0,10	ppn
Chlorosulfuric acid	HCL03S	7790-94-5	E	P3	MC	1,00	mg/r
Chlorothene	CH3CCI3	71-55-6	A		MC	300,00	ppn
Chlorpyrifos	C9H11Cl3NO3PS	2921-88-2	A BF	P3	DM or MC	0,200	mg/n
Chromic acid (cro3)	CrO3	1333-82-0 7440-47-3	BE	P3	MC MC	0,05	mg/n
Chromium Cobalt and compounds (as co)	Co	7440-48-4		P2/P3	DM or MC	VLE	mg/n mg/n
Copper, dusts and mists	Cu	7440-46-4		P3	MC MC	1,00	mg/n
Crag® herbicide No. 1	C6H3Cl2OCH2CH2OSO3Na	136-78-7		P3	MC	5,00	mg/r
Cresols (all isomers)	C7 H8 O	1319-77-2	A	P3	MC	5,00	ppn
Cumene	C6H5CH(CH3)2	98-82-8	А		MC	50,00	ppn
Dyanogen chloride, (as -cn)	C- N	57-12-5	В	P3	MC	5,00	mg/r
Dyclohexene	C6 H10	110-83-8	А		DM or MC	300,000	ppn
Dyclohexylmethane	CH3C8H11	108-87-2	A		DM or MC	400,000	ppn
DBP	C6H4(CDDC4H9)2	84-74-2	A	P3	MC	5,00	mg/n
Dca	C2CI2	7572-29-4			ARI or A AIR	0,100	ppn
DDH	C5H6Cl2N2O2	118-52-5	ABEK	P3	MC	0,20	mg/r
DOT Di- N- Butyl Phoshate	(C6H4CI)2CHCCI3 (C4H9O)2(OH)PO	50-29-3 107-66-4	A	P3	MC MC	1,00	mg/r
Diallyl phthalate	C14 H14 D4	131-17-9	A	P3	DM or MC	5,000	ppn
Diammonium peroxodisulphate	N2 H8 S2 08	7727-54-0	A	P3	MC	1,00	mg/r
Dianiline (mboca)	CH2(C8H4CINH2)2	101-14-4	A	P3	MC	0,00	mg/r
Diatomaceous earth, natural, respirable dust	Si02	68855-54-9		P3	MC	1,20	mg/r
DIBENZ(a, h) ANTHRACENE	C22 H14	65996-93-2	A	P3	MC	0,10	mg/r
Dibenzoyl peraxide	(C6H5CO)2O2	94-36-0	A	P3	DM or MC	5,000	mg/r
Dibromochloropropane	CH2BrCHBrCH2CI	96-12-8			ARI or A AIR	0,001	ppn
Dibutyl phosphate	(C4H9O)2(OH)PO	107-66-4	А	P3	MC	1,00	ppn
Dibutylated hydroxytoluene	[C(CH3)3]2CH3C6H2OH	128-37-0		Р	MC	10,00	mg/r
Dichloromethane	CH2Cl2	75-09-2	AX		MC	50,00	ppn
Dichloromethyl ether	(CH2CI)20	542-88-1	A2	P3	MC	0,05	mg/r
Dicyanogen	NCCN COR MOD DA	460-19-5	BK	~	DM or MC	10,000	ppn
Dicyclohexyl phthalate	C20 H28 04	84-81-7	A	P3	DM or MC	5,000	ppn ma/r
Dieldrin (iso)	C12H8Cl60	60-57-1	A	P3	DM or MC	0,250	mg/r
Diethyl ether Diethyl ohthalate	C2H50C2H5 C6H4(C00C2H5)2	60-29-7 84-66-2	AX A	P3	MC DM or MC	400,00 5,000	ppn ma/r
Diethyl phthalate Diethyl sulphate	C6H4(CUUC2H5)2 C4 H10 O4 S	84-66-2 64-67-5	A	P3	DM or MC	5,000 VLE	mg/r ppn
Diethylene imidoxide	C4HIU U4 5	110-91-8	A	- 10	MC	20	ppn
Diffuorodibromomethane	CBr2F2	75-61-6	-		ARI or A AIR	100,000	ppn
Diisodecyl phthalate	C28 H46 O4	26761-40-0	A	P3	DM or MC	5,000	mg/r
Discononyl phthalate	C26 H42 D4	28553-12-0	A	P3	DM or MC	5,000	mg/r
Diisooctyl phthalate	C24 H38 O2	27554-26-3	А	P3	DM or MC	5,000	mg/r
Diisopropylamine	[(CH3)2CH]2NH	108-18-9	К		MC	5	ppn
Dimethyl carbinol	(CH3)2CH0H	67-63-0	А		MC	400	ррп
Dimethyl ester of 1,2-benzenedicarboxylic acid	C6H4(COOCH3)2	131-11-3	А	P3	MC	5,00	mg/n
Dimethyl ether	H6 C2 O	115-10-6			ARI or A AIR	400,000	ppn
Dimethyl methane	CH3CH2CH3	74-98-6			ARI or A AIR	1000,000	ppn
Dimethyl sulphate	(CH3)2SO4	77-78-1	Α	P3	MC	0,10	ppn
Dimethylacetone	CH3CH2COCH2CH3	96-22-0	A		DM or MC	200,000	ppn
Dimethylaminoethanol	C4H11NO/(CH3)2NCH2CH2OH	108-01-0	Α		MC	? 2	ppn
Dimethylnitromethane	(CH3)2CH(NO2)	79-46-9	A	P3	MC	10,00	ppn
Dinitrogen tetroxide (N2O4),	N 02	10102-44-0	NO		MC	3,00	ppn
Diphenyl	C6H5C6H5	92-52-4	A	P3	MC	0,20	ppn
Diphenyl ether (vapor)	C6H5OC6H5	101-84-8	A	P3	MC	1,00	ppn
Dipotassium peroxodispulphate (measured as s208)*	H2 K2 08 S2	7727-21-1	AB	P	MC	1,00	mg/r
Direx(B)	C6H3Cl2NHCON(CH3)2	330-54-1		P3	DM or MC	10,000	mg/r
Disodium peroxodisulphate (measured as s208)	Na2 08 S2	7775-27-1	A	P3	MC	1,00	mg/r
	Na2B407 • 10H20	1303-96-4	1	P3	MC	5,00	mg/r
Disodium tetraborate, decahydrate Disodium tetraborate, pentahydrate	B4 07 2Na 10H 20	11130-12-4	A	P3	DM or MC	1,000	mg/n

Substances	Chemical formula	N° CAS	Gas fiiter	Particles filter	MC/DM*	OEL	Unitof measure- ment
Disulphur dichloride	S2 CI2	10025-67-9	В	P3	MC	1,00	ppm
Divanadium pentaoxide (as v)	V205	1314-62-1		P3	MC	VLE=0,005	mg/m3
DMAC	CH3CON(CH3)2	127-19-5	A		DM or MC	10,000	ppm
DMF	HCON(CH3)2 (CH3)2NNH2	68-12-2 57-14-7	A K 450		MC MC	10,00	ppm ppm
Fra	CBH7NO2	7085-85-0	AXB	P3	MC	2	mg/m3
Elemental selenium	Se	7782-49-2	AND	P3	MC	0	mg/m3
Endrine	C12H8C160	72-20-8		P3	MC	0,10	mg/m3
Ethane	C2 H6	74-84-0			ARI or A AIR		ppm
Ethanedioic acid	H00CC00H • 2H20	144-62-7		P3	MC	1	mg/m3
Ethanethiol	CH3CH2SH	75-08-1	AX	P3	MC	1	ppm
Ethyl acetone	CH3COCH2CH2CH3	107-87-9	A		MC	200	ppm
Ethyl acrylate	CH2=CHCOOC2H5	140-88-5	A		MC	5,00	ppm
Ethyl alcohol	CH3CH2OH	64-17-5	A		MC	1000	ppm
Ethyl chloroformate	C3H5ClO2 / ClCOOC2H5	541-41-3	AV		ARI or A AIR	1 100	ppm
Ethyl ester of formic acid Ethyl methyl ketone	CH3CH2OCHO CH3COCH2CH3	109-94-4 78-93-3	AX A		MC MC	100 200,00	ppm
Ethyl nitrile	CH3CN	75-05-8	A		MC	40	ppm
Ethyl parathion	(C2H5O)2P(S)DC8H4NO2	56-38-2	A2	P3	MC	0	mg/m3
Ethylamine	CH3CH2NH2	75-04-7	К		MC	10,00	ppm
Ethylbenzene	CH3CH2C6H5	100-41-4	A		MC	100	ppm
Ethylene	C2 H4	74-85-1			ARI or A AIR		ppm
Ethylene bromide	BrCH2CH2Br	106-93-4	A		MC	0,05	ppm
Ethylene oxide	C2H4O	75-21-8	AX		MC	5,00	ppm
Ferbam (iso)	[(CH3)2NCS2]3Fe	14484-64-1		P3	MC	10	mg/m3
Ferrocene	C10 H10 Fe	102-54-5	A	Р	MC	10	mg/m3
Fluoride (as f)	F	16984-48-8	AB	P3	DM or MC	3	mg/m3
Fluorine-19 Formal	F2 CH30CH20CH3	7782-41-4	B		MC MC	1,00	ppm
Formal Formaldehyde	CH3UCH2UCH3 HCHO	109-87-5 50-00-0	AX		MC MC	1000,00 0,50	ppm ppm
Formanide	HCHU HCONH2	75-12-7	ABE	P3	MC MC	10,00	ppm
Formic acid	HCOOH	64-18-6	B / BE	P3	MC	5	ppm
Formonitrile	HCN	74-90-8	В	P3	MC	2,00	ppm
Freon® 112	CC12FCC12F	76-12-0	Α		MC	500,00	ppm
Freon® 112a	CCI3CCIF2	76-11-9	A		MC	500,00	ppm
Freon® 113	CC12FCC1F2	76-13-1			ARI or A AIR	1000	ppm
Freon® 114	CCIF2CCIF2	76-14-2			ARI or A AIR	1000,000	ppm
Freon® 12	CCI2F2	75-71-8			ARI or A AIR	1000,000	ppm
Freon® 21	CHCl2F	75-43-4			ARI or A AIR	10,000	ppm
Freon® 22	CHCIF2	75-45-6			ARI or A AIR	1000,000	ppm
Germanium tetrahydride	GeH4	7782-65-2	١.	DO.	ARI or A AIR	0	ppm
Glycerol Glycidyl phenyl ether	HOCH2CH(OH)CH2OH C9H10O2	56-81-5	A	P3	MC	5,00	mg/m3
Glycol dinitrate	02N0CH2CH20N02	122-60-1 628-96-6	A	P	MC MC	0,20	ppm ppm
Graphite	C	7440-44-0	n	P2/P3	DM or MC	5,000	mg/m3
Guthion®	C10H12O3PS2N3	86-50-0	A	P3	DM or MC	0	mg/m3
бурѕит	Ca S 06 H4	10101-41-4		P3	MC	4	mg/m3
Hafnium	Hf	7440-58-6		P3	MC	1	mg/m3
Halon® 1301	CBrF3	75-63-8			ARI or A AIR	1000,000	ppm
Helium	He				ARI or A AIR		ppm
Heptan-2-one	CH3CO(CH2)4CH3	110-43-0	A		MC	100	ppm
Hexachlorobenzene	C6 C16	118-74-1	A	P3	MC	0,03	mg/m3
Hexahydromethylphenol	CH3C6H100H	25639-42-3	A		MC	50	ppm
Hexalin	C6H110H	108-93-0	A		MC	50,00	ppm
Hexamethyl phosphoramide Hexane	((CH3) 2N) 3PO	680-31-9 110-54-3	A		ARI OU A AIR	50	
Tionaria	CH3[CH2]4CH3	1305-62-0	A	P3			ppm ma/m²
Hydrated lime Hydrazine	Ca(OH)2 H2NNH2	302-01-2	К	P3	DM or MC MC	5,000 0,10	mg/m3 ppm
Hydrazinobenzene	C6H5NHNH2	100-63-0	A	P3	DM or MC	0,140	ppm
Hydrazoic acid (as vapour)	H N3	7782-79-8	К	P3	MC	0	ppm
Hydrogen	H2	1333-74-0 ?			ARI or A AIR		ppm
Hydrogen chloride	H CI	7647-01-0	В	P3	MC	5,00	ppm
Hydrogen fluoride (as f)	HF	7664-39-3	B 450	P3	MC	3.00 (ST)	ppm
Hydrogen nitrate	HNO3	7697-37-2	B/BE/ NO	P3	MC	2	ppm
Hydrogen peroxide	H202	7722-84-1	AB	P3	MC	1	ppm
Hydrogen phosphide	PH3	7803-51-2	В		MC	0,10	ppm
Hydrogen sulfate	H2S04	7664-93-9	BE 450	P3	MC	1	mg/m3
Hydrogen sulphide	H2 S	7783-06-4	В		MC	10	ppm
Hydroquinone monomethyl ether	CH30C6H40H	150-76-5		P3	MC	5	mg/m3
Hydrous magnesium silicate	Mg3Si4010(0H)2	14807-96-6		P3	MC	2,00	mg/m3
Hyponitrous acid anhydride	N2 O	10024-97-2	NO		MC	25,000	ppm
Impure corundum	Al203	1302-74-5		P3	DM or MC	5	mg/m3
Indium and compounds (as in)	ln on un	7440-74-8	١.	P3	MC	0	mg/m3
Indonaphthene	C9 H8	95-13-6	A	DO.	MC	10	ppm
lodine lodomethane	12 CH3I	7553-56-2 74-88-4	IPR AX	P3	MC MC	0,10 VLE=2	ppm
Iron (III) oxide	CH3I Fe203	74-88-4 1309-37-1	ΑX	P3	DM or MC	VLE=2	ppm mn/m3
Iran (III) axide Iran axide, fume (as fe)	Fe2U3 Fe2U3	1309-37-1		P3	DM or MC	5	mg/m3 mg/m3
Iron pentacarbonyl	Fe(CO)5	13463-40-6	A	P3	MC MC	0	ppm
Isobutanol	(CH3)2CHCH2OH	78-83-1	A		MC	50	ppm
Isobutenyl methyl ketone	(CH3)2C=CHCOCH3	141-79-7	A		MC	10,00	ppm
Isoflurane	C3 F5 H2 CI O	26675-46-7			ARI or A AIR	50	ppm
Isophorone diamine diisocyanate	C12H18N2O2	4098-71-9	A		MC	VLE=0,01	ppm
Isopropyl chloroformate	C4H7ClO2/(CH3)2CHOCOCI	108-23-6	Α	P3	MC	? 1.00	ppm
Isovalerone	[(CH3)2CHCH2]2CO	108-83-8	A		MC	25,00	ppm
	C20H28D3 / C21H28D5 C21H3DD3 /		Т	P3			
Jasmolin I or II	C22H3005 C21H2B03 / C22H2B05	8003-34-7	A		MC	5.00	mg/m3
Kaolin	(AI2Si2O5(OH)4)2	1332-58-7		P3	DM or MC	5	mg/m3
Keto-ethylene	CH2=CD	463-51-4			ARI or A AIR	1	ppm
Ketone propane	(CH3)2CO	67-64-1	AX		MC	500	ppm
Lead and compounds (except lead alkyls)	Pb	7439-92-1		P3	MC	150,00	μg/ m3
Lepidolite	n/a	12001-26-2		P3	DM or MC	3,000	mg/m3
Lime	CaO	1305-78-8		P2/P3	MC	2,00	mg/m3
Lithium hydroxide	LiOH	1310-65-2		P3	MC	1.00 (ST)	mg/m3
Lithium monohydride*	LiH	7580-67-8	A	P3	MC	0,025	mg/m3
LPG (Liquefied Petroleum Gas)	Mix : C3 H6; C3 H8; C4 H8; C4 H10	68476-85-7			ARI or A AIR	1000.00	ppm

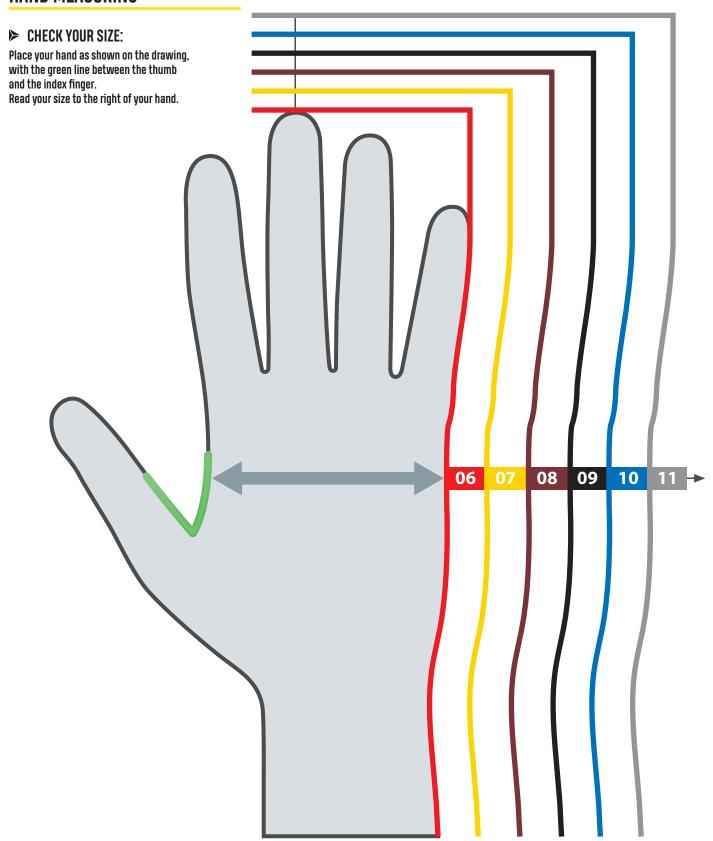




	Substances	Chemical formula	N° CAS	Gas filter	Particles filter	MC/DM*	OEL	Unit of
Magnesite		MgC03	546-93-0		P3	DM or MC	5,000	mg/
Magnesium oxide, fur	ne and dust (as mg)	MgO	1309-48-4		P3	DM or MC	15	mg/
Malathion (iso) Manganese and comp	coundo (oo ma)	C10H1906PS2 Mn	121-75-5 7439-96-5	A	P3 P2/P3	MC DM or MC	10 1,000	mg/
Manganese tetroxide	Junius (92 iiiii)	Mn304	1317-35-7		P3	DM or MC	1,000	mg/ ma/
-	ylmethylcyclopentadieny	CH3C5H4Mn(CO)3	12108-13-3	A	P3	MC MC	0	mg/
Margarite	,,,	n/ a	12001-26-2		P3	DM or MC	3,000	mg/
MD		C5H5Mn(CD)3	12079-65-1	A	P3	DM or MC	0,100	mg/
MDI		CH2(C8H4NCO)3	101-68-8	A	P3	MC	0,01	ppi
Mecrylate		CH2=C(CN)COOCH3	137-05-3	A	P3	MC	2,00	ppi
	ic divalent compounds	Hg	7439-97-6	Hg	P3	DM or MC	0,050	mg/
Mesitylene Anthony data manage		CBH3(CH3)3	108-67-8	A		MC	25	pp
Aethacrylate monom Aethane	er	CH2=C(CH3)COOCH3 C H4	80-62-6 74-82-8	A		MC ARI or A AIR	100	pp
veurane Vethane tetrabromid	0	CBr4	74-82-8 558-13-4	A		DM or MC	1,400	mg.
Methane tetramethyl		C(CH2OH)4	115-77-5	A	P3	MC	5	mg.
Methanethiol	ui .	CH3SH	74-93-1	AXB		MC	0,50	pp
Methanol		CH30H	67-56-1	AX		MC	200	pp
Methomyl (iso)		CH3C(SCH3)NOC(O)NHCH3	16752-77-5		P3	MC	3	mg
lethaxy-dtt		(C6H4OCH3)2CHCCl3	72-43-5	A	P3	DM or MC	15,000	mg
Nethyl acetate		CH3C00CH3	79-20-9	AX		MC	200.00	pp
Methyl ester of formio	acid	HC00CH3	107-31-3	AX		MC	100	pp
Nethyl ester of isocya	nic acid	CH3NCO	624-83-9	В	P3	MC	VLE=0,02	mg
Methyl ethylene oxide		C3H6O	75-56-9	AX 450		MC	100,00	pp
Methyl parathion		(CH30)2P(S)0C8H4N02	298-00-0	A2	P3	MC	0	mg
lethyl phosphite		(CH3O)3P	121-45-9	А	P3	MC	2	pp
fethyl propenoate		CH2=CHCOOCH3	96-33-3	А		MC	10	pp
METHYL- t- BUTYL ETHE	R	C5 H12 O	1634-04-4	AX	P3	MC	25	p
fethylene oxide		HCH0	50-00-0	ABE		MC	0,50	p
1ethylstyrene		CH2=CHC6H4CH3	25013-15-4	A		MC	100	P
fiak		CH3COCH2CH2CH(CH3)2	110-12-3	A		MC	50	p
(ibc		(CH3)2CHCH2CH(OH)CH3	108-11-2	A	DC.	MC	25	P
(MH folybdonum compou	ande (oe ma)	CH3NHNH2 Mn	60-34-4 7/30 00 7	AK	P3	MC MC	0,04	p
lolybdenum compou lonochloropentafluo		Mo CCIF2CF3	7439-98-7 76-15-3		P3	ARI or A AIR	1000.000	mg
tonochloropentanuo tonofluorotrichlorom		CCI3F	75-69-4			ARI OF A AIR	1000,000	pp
I- Butyl chloroformat		C5 H10 CL 02	592-34-7	A	P3	MC	100	pp
I- propyl acetate		CH3COOCH2CH2CH3	109-60-4	A	10	MC	200.00	pp
I, n- dimethylaniline		C6H5N(CH3)2	121-69-7	A	P3	MC	5.00	pp
I,N'-Dimethyl-4,4'-bip	vridinium dichloride	CH3(C5H4N)2CH3 • 2CI	1910-42-5	A	P3	MC	0,10	mg
laphthalene		C10H8	91-20-3	А	P3	MC	10,00	pp
lavadel®		C4H6O2[SPS(OC2H5)2]2	78-34-2	A	P3	MC	0,20	mg
leon		Ne	7440 01 9			ARI or A AIR		pp
I-Ethylethanamine		(C2H5)2NH	109-89-7	K + 450		MC	10,00	pp
I-Ethylmorpholine		C6 H13 N O	100-74-3	А	P3	MC	5.00	pp
lg		CH2N03CHN03CH2N03	55-63-0	A	P3	DM or MC	0,100	mg
Nickel and inorganic (compounds	Ni	7440-02-0		P3	DM or MC	1,000	mg
lickel carbonyl		Ni(CO)4	13463-39-3			ARI or A AIR	0.10 (ST)	p
licotine		C5H4NC4H7NCH3	54-11-5	A	P3	DM or MC	1	mg
litrapyrin		CIC5H3NCCI3	1929-82-4	AB	P3	MC	5,00	mg
litric oxide		N 0	10102-43-9			ARI or A AIR	25	PI
litrocarbol		CH3N02	75-52-5	A	P3	MC	100	P
litroethane litroenn		CH3CH2NO2	79-24-3	A	P3	MC ADLOS A AID	100	PI
litrogen litrogen trifluoride		N2 NF3	7727-37-9 7783-54-2			ARI or A AIR ARI or A AIR	10	P
litropropane		CH3CH2CH2NO2	108-03-2	A	P3	MC MC	25	PI
an akke dan akka a a ani	20	(OLIO)ONIII	124-40-3	1 1/	ro	MO	10.00	-
i-methylmethanamii IN- Dimethylethylam		C4 H11 N	598-56-1	K	P3	MC	5,00	PI
I-Nitroso-N,N-dimeth		(CH3)2N2O	62-75-9	A	P3	MC	0,00	PI
I-wicioso-w,w-uimecir I-octane	,	CH3[CH2]6CH3	111-65-9	A	10	MC	75,00	mg
lonyphenols		C15H24O	25154-52-3	A	P3	MC	,5,00	my
l-phenylmethylamini		CBH5NHCH3	100-61-8	A		DM or MC	1	pj
	capto-4-cyclohexene 1,2-dicarboximide	C9HBCI3NO2S	133-06-2	A	P3	DM or MC	5,000	mq
	оорко-ч-оуогонежене т,z-итсатиохитиов			A				
lux vomica		C21H22N2O2	57-24-9		P3	MC DM or MC	0	mg
- acetylsalicylic acid		CH3C00C6H4C00H	50-78-2		P2/P3	DM or MC	5.00	mg
-anisidine -dianisidine		NH2C6H4OCH3 (NH2C6H3OCH3)2	90-04-0	A	P3	MC DM or MC	1	mg
-dianisidine I-diphenylbenzene		(NH2C6H3UCH3)2 C6H5C6H4C6H5	84-15-1		P3	DM or MC DM or MC	1	P
il mist, mineral		CONDUCTION OF THE CONTROL OF THE CON	8012-95-1		P3	MC DW OLWC	5	p) mg
il of mirbane		C8H5NO2	98-95-3	A	P3	MC	1	P
nitrotoluene		NO2C6H4CH3	88-72-2	A	P3	MC	2,00	PI
rtho-dichlorobenzen	8	C6H4CI2	95-50-1	A		MC	50,00	PI
rthophosphoric acid		H3P04	7664-38-2	В	P3	MC	1.00 (ST)	mg
-sec-Butylphenol		CH3CH2CH(CH3)C6H4OH	89-72-5	A		MC	5,00	p
Ismium axide		0s04	20816-12-0	В	P3	MC	0	mg
xooctyl alcohol		C7H15CH2OH	26952-21-6	А		MC	50	pp
zone		03	10028-15-6	AXB2	P3	MC	0	pp
- Aramid respirable	fibres	(C14 H10 O2 N2) n	26125-61-1		P3	DM or MC	0.50	fibre
- toluenesulphonyl c	hloride	C7 H7 S O2 CI	98-59-9	AB	P3	DM or MC	5.00 (ST)	mg
aracetamol		C8 H9 N O2	103-90-2		P3	DM or MC	10	mg
-Dioxane		C4H8D2	123-91-1	А	P3	MC	10,00	p
entachlorophosphor	us	PCI5	10026-13-8	В	P3	MC	1,00	mg
entane		CH3[CH2]3CH3	109-66-0	AX		MC	120	p
eracetic acid		C2H4O3	79-21-0	AB	P3	DM or MC		pp
eroxide de 2-Butano	ne	C8H16O4	1338-23-4	А	P3	MC	VLE=0,2	p
henyl phosphate		(C8H5O)3PO	115-86-6	A	P3	MC	3	mg
henylaniline		(C6H5)2NH	122-39-4	А	P3	MC	10,00	mg
henylethylene		C6H5CH=CH2	100-42-5	A		MC	50,00	pp
'horate		(C2H5O)2P(S)SCH2SC2H5	298-02-2	Α	P3	MC	0	mg
hosphorus axychoria		POCI3	10025-87-3	В	P3	MC	0	pp

Substances	Chemical formula	N° CAS	Gas filter	Particles filter	MC/DM*	OEL	Unit of
Phosphorus pentoxide		1314-56-3	A	P3	DM or MC	2.00 (ST)	mg/
Phosphorus trichloride	PCI3	7719-12 2	B 450	P3	MC	0	ppr
Phosphorus, yellow	P4	7723-14-0			ARI or A AIR	0	mg/
Picloram (iso)	C6H3Cl3O2N2	1918-02-1	AB	P3	MC	5,00	mg/
Piperazine hydrochloride	C4H1DN2 HCI	142-64-3		P3	MC	5.00	mg/
Piperidine	CH2(CH2)4NH	110-89-4	A	DD /DD	DM or MC	?	pp
latinum metal	Pt	7440 06 4	40	P2/P3	DM or MC	5	mg/
olychlorinated biphenyl	C6H3Cl2C6H2Cl3	11097-69-1	AB	P3	MC	0,10	mg/
Polychlorinated biphenyls (pcb's)	C12 H(10- x) Clx	1336-36-3		DO.	ARI or A AIR	0,500	mg/
otassium bromate rotassium hydroxide	K Br 03	7789-01-2 1310-58-3		P3	DM or MC MC	2.00 (ST)	
-quinone	0C6H4O	106-51-4	A	P3	MC	0,10	mg.
•	(CH3)2CHCH2CH2OH	123-51-3	A	P3	MC MC	100	pp
rimary isoamyl alcohol	C16 H21 N O2	525-66-6	A	P3	DM or MC		pp
ropranolol			A	Р3		2	mg.
ropylene	C3 H6	115-07-1	١.	DO.	ARI or A AIR	450	pp
ropylene glycol	as Propane-1,2- diol	57-55-6	A	P3	DM or MC	150	pp
ropylene glycol-1,2-dinitrate	CH3CNO2OHCHNO2OH	6423-43-4	A	P3	MC	0	pp
vc (polyvinyl chloride) (resp. Dust)	(C2 H3 CI) N	9002-86-2		P3	MC	4	mg.
yridine 	C5H5N	110-86-1	A	P3	MC	5	pp
yrophosphate	Na4P207	7722-88-5		P3	MC	5	mg
uartz	Si02	14808-60-7		P3	DM or MC	0,050	mg.
DX	C3H6N6O6	121-82-4		P3	DM or MC	1,500	mg.
esorcinol	C6H4(OH)2	108-46-3	A	P3	MC	10	pp
hodium (as rh) metal fume and dust	Rh	7440-16-6		P2/P3	DM or MC	0	mg.
otenone (iso)	C23 H22 O6	83-79-4	A	P3	MC	5	mg.
accarose	C12H22O11	57-50-1		P2/P3	DM or MC	10	mg.
ec-Hexyl acetate	C8 H16 O2	108-84-9	A		MC	50	pp
eekay wax	C10H4CI4	1335-88-2	Α	P3	DM or MC	2	mg
elenium dihydride	H2 Se	7783-07-5			ARI or A AIR	0	pj
ilica, amorphous (resp. Dust)	Si02	7631-86-9		P3	MC	6,00	mg
ilica, fused (resp. Dust)	02 Si	60676-86-0		P3	MC	0	mg.
ilicane	SiH4	7803-62-5			ARI or A AIR	5,000	pp
ilicon (resp. Dust)	Si	7440-21-3		P3	MC	4	mg.
ilicon monocarbide	SiC	409-21-2		P3	DM or MC	5,000	mg.
ilver, metallic	Ag	7440-22-4		P3	MC	0	mg.
odium bisulphite	NaHS03	7631-90-5		P2/P3	MC	5	mq.
odium hydroxide	NaOH	1310-73-2		P3	MC	2.00 (ST)	mg.
odium metabisulphite	Na2S205	7681-57-4	В	P3	MC	5,00	mg.
odium monofluoroacetate	FCH2COONa	62-74-8		P3	DM or MC	0	mg.
ubtilisins	Bacillus subtilis	1395-21-7		10	ARI or A AIR	0	mq.
ulfur fluoride	SF6	2551-62-4	BE	P3	MC	1000	pp
ulfurous oxychloride	SOCI2	7719-09-7	В	P3	MC	1.00 (ST)	PF
Sulphur dioxide	S02	7446-09-5	E	10	MC	2	pp
Sulphur pentafluoride	S2F10	5714-22-7	B	P3	MC	0,01	DI
Julphur tetrafluoride	SF4	7783-60-0	В	ru	ARI or A AIR	0,01	
•			DF / FO				pp
ulphuryl difluoride	S02F2	2699-79-8	BE 450		MC	5	pp
lym-dichloroethylene	CICH=CHCI	540-59-0	AX		MC	200,00	pp
antalum	Ta	7440-25-7		P3	MC	5	mg.
CP	(CH3C6H4O)3PO	78-30-8	A	P3	DM or MC	0	mg.
DI	CH3C8H3(NCO)2	584-84-9	A2B2	P3	MC	VLE=0,01	pp
EA	(C2H5)3N	121-44-8			MC	10,00	pp
edp	[(CH3CH20)2PS]20	3689-24-5	ABE	P3	MC	0	mg.
ellurium & compounds	Te	13494-80-9		P2/P3	DM or MC	0	mg.
ellurium fluoride	TeF6	7783-80-4			ARI or A AIR	0	pp
epp (iso)	[(CH3CH20)2P0]20	107-49-3	A	P3	MC	0	mg.
ert-Butyl ester of acetic acid	CH3C00C(CH3)3	540-88-5	A		DM or MC	200	pp
etrachloroethylene	CI2C=CCI2	127-18-4	A		MC	50,00	pp
etraethyl silicate	(C2H5)4SiO4	78-10-4	Α		MC	10	pp
etramethyl silicate	(CH3O)4Si	681-84-5	A		MC	1	pp
etramethyl succinodinitrile	(CH3)2C(CN)C(CN)(CH3)2	3333-52-6	A	P3	DM or MC	1	pp
hallium, soluble compounds (as tl)	TI	7440-28-0		P3	MC	0	mg.
HF	C4H80	109-99-9	A		MC	200	pp
hio-4,4' bis (tert-butyl-6m-crésol)	[CH3(OH)C6H2C(CH3)3]2S	96-69-5		P3	DM or MC	5,000	mg.
hiophenol	CBH5SH	108-98-5	A		MC	0,000	pp
hiram (iso)	CBH12N2S4	137-26-8	A	Р	MC	5	mg
in compounds, inorganic, except snh4 (as sn)	Sn	7440-31-5		P3	MC	2	mg
itanium peroxide	TiO2	13463-67-7		P3	MC	4	mg.
MA	(CH3)3N	75-50-3	K	1.0	MC MC	10	pp.
MA Diuene	C6H5CH3	108-88-3	A		MC MC	100,00	bt
Juonio .	(CH3(CH2)30)3P0		_	pο			
ributul actor of phaceboric solid		126-73-8 76-03-9	A	P3	MC	2,50	mg.
	00000011		B A	P3	MC	10.00	pp
ichloroethanoic acid	CCI3COOH				MC	10,00	pp
richloroethanoic acid richlorohydrin	CH2CICHCICH2CI	96-18-4	_	po.	140	E-00:	mg.
richloroethanoic acid richlorohydrin ricyclohexyltin hydroxide	CH2CICHCICH2CI (CBH11)3SnOH	96-18-4 13121-70-5	A	P3	MC	5,00	
ichlaroethanoic acid ichlarohydrin icyclohexyltin hydroxide iglycidyl isocyanurate (tgic)	CH2CICHCICH2CI (CBH11)3SnDH C12 H15 N3 OB	96-18-4 13121-70-5 2451-62-9	A AB	P3 P3	DM or MC	VLE	
richloroethanoic acid richlorohydrin ricyclohexyltin hydroxide riglycidyl isocyanurate (tgic) riidodmethane	CH2CICHCICH2CI (C6H11)3SnOH C12 H15 N3 O6 CH13	96-18-4 13121-70-5 2451-62-9 75-47-8	A AB A		DM or MC MC	VLE 0,60	pp
inchloroethanoic aaid ichlorohytrin igyoloeyyttin hydroide igyicidyl isosyanurate (tgic) iigidiomethane iilene	CH2CICHCICH2CI (C6H11)3SnOH C12 H15 N3 O6 CH13 CICH=CC12	96-18-4 13121-70-5 2451-62-9 75-47-8 79-01-6	A AB A		DM or MC MC MC	VLE 0,60 75,00	bt
inhloroethanoic aoid ichlorohydrin ispjoliveytin hydroide ispjoliveytin hydroide ijojody isosyanurate (tgic) iiodornethane illene iimethyl carbinol	CH2CICHOICH2CI (C6H11)3SnOH C12 H15 N3 O6 CH3 CICH=CC12 (CH3)3COH	96-18-4 13121-70-5 2451-62-9 75-47-8 79-01-6 75-65-0	A AB A A	P3	DM or MC MC MC MC	VLE 0,60 75,00 100	bt bt
nichloreethanoic acid ichlorehydrin ichlorehydrin icycloneylith hydraude inglicidyl isocyanurale (tigic) inicidomethane rilene irinethy icarbinol irintrotaluol	CH2CICHDICH2CI (C6H11)3Sn0H C12 HIS N3 06 CH3 CICH-C12 (CH3)3C0H CH3CSH2(N02)3	96-18-4 13121-70-5 2451-62-9 75-47-8 79-01-6 75-65-0 118-96-7	A AB A	P3	DM or MC MC MC MC MC	VLE 0,60 75,00 100	pr pr mg.
nichloreethanoic acid ichlorehydrin ichlorehydrin icycloneylith hydraude inglicidyl isocyanurale (tigic) inicidomethane rilene irinethy icarbinol irintrotaluol	CH2CICHOCH2CI (C6H113SnOH C12 H15 N3 O6 CH13 CICH-CCI2 (CH3)COCH CH3COCH CH3COCH CH3COCH CH3COCH CH3COCH	96-18-4 13121-70-5 2451-62-9 75-47-8 79-01-6 75-65-0 118-96-7 7440-33-7	A AB A A	P3	DM or MC MC MC MC	VLE 0,60 75,00 100	pr pr mg.
nichloreethanoic acid inchlorohytin ni nicycloheyttin nyidroxide inghicidy isocyanurale (tigic) nicodomethane inlene iniene iniene inientyi carbinol initrotoluol ungstan 6 compounds (as wil (soluble)	CH2CICHDICH2CI (C6H11)3Sn0H C12 HIS N3 06 CH3 CICH-C12 (CH3)3C0H CH3CSH2(N02)3	96-18-4 13121-70-5 2451-62-9 75-47-8 79-01-6 75-65-0 118-96-7	A AB A A	P3	DM or MC MC MC MC MC	VLE 0,60 75,00 100	pi pi mg
richlorvethanoic acid inchlorohytini richlorohytini ricycloreyttin hydroxide ricylcidyl scorpanurate (tgic) ricodomethane richen rimethyl carbinol rimitotolool ringston 6 compounds (as wi) (soluble) urpestine	CH2CICHOCH2CI (C6H113SnOH C12 H15 N3 O6 CH13 CICH-CCI2 (CH3)COCH CH3COCH CH3COCH CH3COCH CH3COCH CH3COCH	96-18-4 13121-70-5 2451-62-9 75-47-8 79-01-6 75-65-0 118-96-7 7440-33-7	A AB A A A	P3	DM or MC MC MC MC MC MC	VLE 0,60 75,00 100 1	pp pp mg mg
richlorvethanoic acid inchlorohytrin incipciney(tin hydravide injolcidy) isocyanurate (tgic) iniodomethane ritene irinetric (scatinoid irintrotaluo) iniogstan 6 compounds (as w) (soluble) urpentine iranium compounds, natural, soluble (as u)	CH2CICHDCH2CI (C6HI13Sn0H C12 HI5 N3 06 CH3 CICH=CCI2 (CH3)3C0H CH3CH2(N02)3 W C10 HI6 (approx)	96-18-4 13121-70-5 2451-62-9 75-47-8 79-01-6 75-65-0 118-96-7 7440-33-7 8006-64-2	A AB A A A	P3	DM or MC MC MC MC MC MC MC	VLE 0,60 75,00 100 1 1	pr pr mg mg
nichloreethanoic acid ichlorehydrin ichlorehydrin icycloreyktin hydraudde iglycidyl scocyanurale (tigic) iriodomethane iriahe iriahe irinethyl carbinol irintrotobuol ingstan is compounds (as wi) (soluble) urpentine armumic mompounds, netural, soluble (as u) ac	CH2CICHDCH2CI (CRHITISSNOH CT2 H15 N3 0B CH3 CICH=CDC2 (CH3)3C0H CH3CRC2/S W CIU H16 (approx) U	96-18-4 13121-70-5 2451-62-9 75-47-8 79-01-6 75-65-0 118-96-7 7440-33-7 8006-64-2 7440-61-1	A AB A A A	P3	DM or MC	VLE 0,60 75,00 100 1 1 1 100	bt bt bt
nichloreethanoic acid inchlorohydrin inchlorohydrin incycloreyktin hydroxide inghoidy iscocjanurale (tigic) iniodomethane inlene inimethy icratinol inintrotoluol ungstan 6 compounds (as wil (soluble) urpentine ranium compounds, natural, soluble (as u) ac ac	CH2CICHOCH2CI (C6H1)3SnOH C12 HI5 N3 06 CH3 CICH-CDC2 (CH3)3COH CH30BC0H CH30BC0H CH30BC1(N02)3 W C10 HI6 (apprax) U CH2=CH00CCH3	96-18-4 13121-70-5 2451-82-9 75-47-8 79-01-6 75-65-0 118-96-7 7440-33-7 8006-64-2 7440-61-1 108-05-4	A AB A A A A A	P3 P3 P3 P3	DM or MC M	VLE 0,60 75,00 100 1 1 100 0 VLE =4	pr pr mg mg pr mg
richlorvethanoic acid inchlorohydrin inchlorohydrin incycloreyktin hydroxde inghydiol scocyanurale (tgic) ricidomethane irilene irinethyl carbinol ininctooluol ininctooluol ininctooluol ingstan 6 compounds (as wil (soluble) urpentine iranium compounds, netural, soluble (as u) acc c c c c c c c carbinin (so)	CH2CICHDCH2CI (CBHITISSINH CT2 HIS N3 08 CHI3 CICH-CCI2 (CH3)300H CH3CH2(N02)3 W CI0 HIG (approx) U CH2-CH00CCH3 CH2-CCI	96-18-4 13121-70-5 2451-82-9 75-47-8 79-01-6 75-85-0 118-96-7 7440-33-7 8006-84-2 7440-61-1 108-05-4 75-35-4	A AB A A A A A	P3 P3 P3 P3	DM or MC M	VLE 0.60 75.00 100 1 1 1 00 0 VLE = 4 VLE	pp pp mg, mg, pp mg, pp mg,
richlorvethanoic acid inchlorohydrin inchlorohydrin incipcioheydtin hydroxide inghickid scocjanurale (tigic) iniodomethane irine irine irine irine irine irine irine irintrobluol ungsten 6 compounds (as wl (soluble) urpentine iranium compounds, natural, soluble (as u) ac Do Aarfarin (so) httle spirit irinelirine irin	CH20ICHDICH2CI (C6HI1I3Sn0H C12 HI5 N3 08 CH3 CICH=CCI2 (CH3)3C0H CH3C6H2(N02)3 W C10 HI6 (approx) U CH2=CH00CCH3 CH2=CCI C19H1804 n/ a C8H10	96-18-4 13121-70-5 2451-62-9 75-47-8 79-91-6 75-65-0 118-96-7 7440-61-1 108-05-4 75-35-4 61-81-1 330-20-7	A A A A AX	P3 P3 P3 P3 P3 P3 P2/P3	DM or MC M	VLE 0.60 75.00 100 1 1 1 100 0 VLE = 4 VLE 0	pp pp mg, mg, pp mg, pp mg, mg,
richloreethanoic acid ichlorehydrin ichlorehydrin ichlorehydrin ingoloewytin hydraude inglycidyl scocyanurate (tipic) inicidomethane rithene irinethy (carbinol irintrotaluol ungsten 6 compounds (as w) (soluble) urgentine irinitrotaluol acc 00 00 00 farfarin (iso) hite spirit irintrotaluol irintr	CH2CICHDCH2CI (C6HI1)SS:DH C12 HIS N3 0B CH3 CICH=CD12 (CH3)3C0H CH30CH2(N02)3 W CID HIS (approx) U CH2=H00CCH3 CH2=CD1 CH3H0A DH3 CH3=CD1 CH3H0A DH0 CH3H0A DH1D CH3H0A	9618-4 13121-70-5 2451-82-9 75-47-8 79-01-6 75-68-0 118-96-7 7440-33-7 8008-64-2 744-91-1 108-05-4 61-81-2 8052-41-3 130-20-5 88-99-9	A AB A A A A AX A	P3	DM or MC M	VLE 0.60 75,00 100 1 1 1 100 0 VLE = 4 VLE 0 350,00 100 1	mg, pp pr pr mg, pp mg, pp pp mg, pp mg, mg, pp mg, pp mg, pp
ribulyl est of phosphoric acid richlorephenoic acid richlorephenoic acid richlorephydrin ricyclohesyttin hydroxde ripycidyl scoyanurate (tgic) rindodnethane riche rimethyl carbinol rindrotoluol ungstan & compounds (as wi) (soluble) urpertine rimmun compounds (as wi) (soluble) urpertine rimmun compounds, natural, soluble (as u) ac 00 Votrarian (iso) Virbel spirit Virbel (sil somers)	CH20ICHDICH2CI (CBHITISSINH CT2 HIS N3 08 CHI3 CICH-CCI2 (CH3I300H CH3CSH2(N02)3 W CI0 HI6 (approx) U CH2-CH00CCH3 CH2-CCI1 CHHIBO4 D/J a CSH10 CBHCB1 Y	96-18-4 13121-70-5 2451-62-9 75-47-8 79-01-6 75-65-0 118-96-7 74-0-3-3-7 80-60-61-1 108-05-4 75-35-4 61-81-2 8052-41-3 1330-20-7 58-89-9 7440-85-5	A A A A AX	P3 P3 P3 P3 P2/P3 P3 P3 P3 P3 P3	DM or MC M	VLE 0.60 75.00 100 1 1 1 100 0 VLE = 4 VLE 0 350,00 100 1 1 1 1	pp pp mg, pp mg, pp mg, mg, mg,
richloreethanoic acid ichlorehydrin ichlorehydrin ichlorehydrin ingoloewytin hydraude inglycidyl scocyanurate (tipic) inicidomethane rithene irinethy (carbinol irintrotaluol ungsten 6 compounds (as w) (soluble) urgentine irinitrotaluol acc 00 00 00 farfarin (iso) hite spirit irintrotaluol irintr	CH2CICHDCH2CI (C6HI1)SS:DH C12 HIS N3 0B CH3 CICH=CD12 (CH3)3C0H CH30CH2(N02)3 W CID HIS (approx) U CH2=H00CCH3 CH2=CD1 CH3H0A DH3 CH3=CD1 CH3H0A DH0 CH3H0A DH1D CH3H0A	9618-4 13121-70-5 2451-82-9 75-47-8 79-01-6 75-68-0 118-96-7 7440-33-7 8008-64-2 744-91-1 108-05-4 61-81-2 8052-41-3 130-20-5 88-99-9	A A A A AX	P3	DM or MC M	VLE 0.60 75,00 100 1 1 1 100 0 VLE = 4 VLE 0 350,00 100 1	pp pr mg, pr mg, pr mg, mg, mg,

HAND MEASURING



THE EUROPEAN STANDARDS

EN420 EN ISO 21420

GENERAL REQUIREMENTS

The reference standard, cannot be used alone, but only in combination with another standard containing protection performance requirements.

- Conform to harmlessness (pH, chrome VI levels, etc...).
- Conform to the size charts (see chart on below).
- Pass the dexterity test.
- · Conform to the labelling, information and identification instructions.

	SIZES AS PER STANDARD EN420										
Glove size	Palm circumference (mm)	Length (mm)	Minimal length								
* • *	₩		(mm)								
6	152	160	220								
7	178	171	230								
8	203	182	240								
9	229	192	250								
10	254	204	260								
11	279	215	270								
12	304	226	280								

STANDARDIZED LABELING/IDENTIFICATION

Each protective glove is clearly identified by a standardized label containing the following elements:

- Our brand logo;
- The product reference or the trade name;
- The size :
- · An information tag indicating that instructions are available for the product :
- The standardization pictogram(s) with their performance ratings.



atmosphere.

▶ COLD RISK EN511

The EN511 standard defines the requirements and test methods for cold protection gloves from cold transmitted by convection or conduction down to -30°C (optionally up to -50°C). This cold can be from climatic conditions or industrial activity.

The selection process of a cold protection glove must take into account several parameters such as the ambient temperature, the health of the person, the duration of exposure, and the level of activities..

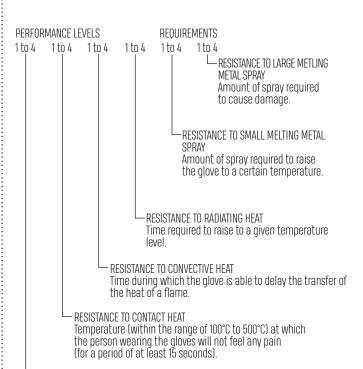
PERFORMANCE LEVELS REOUIREMENTS 1 tn 4 1 to 4 . IMPERMEABILITY TO WATER RESISTANCE TO CONTACT COLD Measurement of the thermal insulation of the palm of a glove with respect to contact with an object of low temperature RESISTANCE TO CONVECTIVE COLD Measurement of the thermal insulation of a glove with respect to an ambient

PERFORMANCE Level	INTENSE ACTIVITY	AVERAGE ACTIVITY	SLOW ACTIVITY
1	-10°C ≤ T < 0°C		
2	-30°C < T	0°C ≤ T < 10°C	
3		-15°C < T	5°C < T
4		-30°C < T	-10°C < T



EN407 ► HEAT AND FIRE RISK

The EN407 standard specifies the test methods, the general requirements, the thermal performance and the labelling of gloves to protect from heat and fire. It applies to all gloves which must protect hands from heat and/or flames in any one or several of the following forms: fire, contact heat, convective heat, radiating heat, small spray of molten metal or large spray of melting metal.



PERFORMANCE CONTACT TEMPERATURE °C THRESHOLD TIME (second) LEVEL 1 100°C ≥15 s 2 250°C ≥15 s 3 350°C ≥15 s 500°C ≥15 s

Time during which the material remains lighted and continues

to be consumed after the ignition source has been eliminated.

WELDERS RISK EN12477

RESISTANCE TO FLAMMABILITY

Requirements and test methods for gloves used for manual welding of metals, for cutting and related techniques. Welder gloves are ranked in two types: B when great dexterity is required (e.g.: TIG welding), and A for other welding processes.





EN ISO 374-1

AGAINST THE RISKS OF MICRO-ORGANISMS **& CHEMICAL RISKS**

Standard EN ISO374-1, protective gloves against chemicals and micro-organisms, specifies the performance requirements required for gloves for protecting users against chemical products and/or micro-organisms and defines the terms to be used:

- Penetration (tested as per standard EN374-2):
- Diffusion of water or air, to check the impermeability, on a non-molecular level, of a chemical product and/or micro-organism through the porosities, seams, micro-holes or other imperfections present in the material of the protective glove.
- Degradation (tested as per standard EN374-4): Determination of the physical resistance of materials to degradation after continuous contact with hazardous chemicals.
- Permeation (tested as per standard EN374-3 or EN16523);
- Process by which a chemical product diffuses through the material of a protective glove, by continuous contact, on a molecular level.
- The EN ISO version of standard 374-1, introduces the concept of three types of protection against the permeation of chemicals:
- Type A: The glove gives a performance index to permeation at least equal to 2 for 6 chemical test substances taken from the list of chemicals specified in the standard.
- Type B: The glove gives a performance index to permeation at least equal to 2 for 3 chemical test substances taken from the list of chemicals specified in the
- Type C: The glove gives a performance index to permeation at least equal to 1 for 1 chemical test substances taken from the list of chemicals specified in the standard.

CODE Letter	CHEMICAL PRODUCT	N° CAS
А	Methanol	67-56-1
В	Acetone	67-64-1
С	Acetonitrile	75-05-8
D	Dichloromethane	75-09-2
Е	Carbon disulfide	75-15-0
F	Toluene	108-88-3
G	Diethylamine	109-89-7
Н	Tetrahydrofurane	109-99-9
1	Ethyl acetate	141-78-6
J	n-Heptane	142-82-5
К	Caustic soda 40 % (NaOH or sodium hydroxide)	1310-73-2
L	Sulphuric acid 96 %	7664-93-9
М	Nitric acid 65%	7697-37-2
N	Acetic acid 99%	64-19-7
0	Ammonium hydroxide 25%	1336-21-6
Р	Hydrogen peroxide 30%	7722-84-1
S	Hydrofluoric acid 40%	7664-39-3
T	Formaldehyde 37%	50-00-0

PASSAGE TIME MEASURED (MN)	PERFORMANCE INDEX To permeation
> 10 mn	1
> 30 mn	2
> 60 mn	3
>120 mn	4
> 240 mn	5
> 480 mn	6

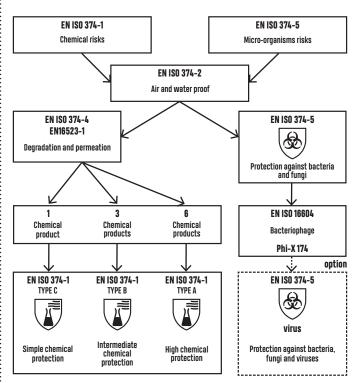


EN ISO 374-5 ► AGAINST THE DANGERS OF MICRO-ORGANISMS

EN ISO 374-5 specifies the requirements and test methods for protective gloves intended to protect the user against microorganisms (mold and bacteria, potentially viruses).

Penetration of molds and bacteria (tested according to EN374-2): Test by which the water and airtightness of a glove is checked.

Penetration of viruses (tested according to method B of ISO 16604): Process that determines the resistance to penetration by blood-borne pathogens - Test method using Phi-X174 bacteriophage:



Examples of application:

The field of use is decisive because, depending on the case, the glove may have to combine several properties in order to meet the necessary protection requirements. It is therefore very important to refer to the recommended areas of use and the results of the laboratory tests found in the instructions for use. However, it is recommended to check that the gloves are suitable for the intended purpose by carrying out tests beforehand, because the conditions at the workplace may differ from those of the standard test, depending on the temperature, abrasion and degradation.





ISO 23 388 ► MECHANICAL RISKS

The EN388 standard applies to all types of protective gloves with respect to physical and mechanical aggression from abrasion, cutting from slicing, perforation and tearing. Since the 2016 version of the standard, new optional performances have appeared.

PERFORMANCE LEVELS REQUIREMENTS

1 to 5 1 to 4 1 to 4 A to F

> RESISTANCE TO IMPACT ON THE METACARPAL AREA Minimum attenuation of the impact force transmitted to the hand

RESISTANCE TO CUTTING BY BLADE (TDM

Force necessary for a straight blade to cut the sample on a movement of 20

RESISTANCE TO PERFORATION Force required to pierce the sample with a standardized punch.

RESISTANCE TO TEARING Maximum force required to tear the sample.

RESISTANCE TO CUTTING WITH A BLADE

Number of cycles required with a circular blade to cut the sample at constant speed.

ABRASION RESISTANCE

Number of cycles required to damage the sample at constant speed.

TEST	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
ABRASION RESISTANCE (number of cycles)	100	500	2 000	8 000	-
BLADE CUTTING RESISTANCE (index)	1,2	2,5	5,0	10,0	20
TEAR RESISTANCE (N)	10	25	50	75	-
PUNCTURE RESISTANCE (N)	20	60	100	150	-

Impact resistance on the metacarpal area: if this performance is claimed, the "P" mark appears.

Marking example:



TEST RESISTANCE To cut in ISO 13997 (TDM)	LEVEL A	LEVEL B	LEVEL C	LEVEL D	LEVEL E	LEVEL F
APPLIED FORCE (N)	2	5	10	15	22	30

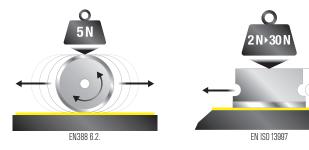
Examples of marking:



Cut by blade, 2 test methods:

EN388 6.2.: For low to middle risks of cutting. A circular blade on which a constant force of 5 N is applied, moves back and forth until the sample is cut. It measures the number of completed cycles and is credited with the corresponding level.

EN ISO 13997: For materials that blunt the blade during the EN388 6.2 test and/ or are particularly resistant, for high risk of cutting. A straight blade makes a single movement of 20 mm with a force of 2N, the test is repeated with a different force as many times as necessary until the sample is cut. A level corresponding to the force required to cut the sample is assigned. This method better represents the usage situations that present a high risk of cutting.



ANSI ISEA (US American National Standards Institute) 105 Classification and specifications for the protection of the hand. Part 5.1.1. Cut resistance Weight necessary for a straight blade to cut the sample in a single movement.

Weight (g)	≥ 200	≥ 500	≥ 1000	≥ 1500	≥ 2200	≥ 3000	≥ 4000	≥ 5000	≥ 6000
2011 version - levels	1	2	3	4	5	-	-	-	-
2016 version - levels	A1	A2	А3	A4	A5	A6	A7	A8	A9





http://gloves.deltaplus.eu

CHEMICAL RESISTANCE TABLE

This table provides only general information. Be careful! Glove resistance is influenced by other factors such as temperature, chemical product concentration, thickness, immersion time, and others.

For specific use conditions, we recommend testing the glove prior to use.

		- ×		1	
		latex	힅		<u>~</u>
	n°CAS	Natural	Neoprene	Nitrile	PVC viny
				Ē	<u> </u>
20% nitric acid 30% and 5% hydrochloric acid	7697-37-2 7647-01-0	**	**	***	**
30% formaldehyde	50-00-0	***	***	***	***
30% hydrofluoric acid	7664-39-3	**	***	***	**
50% acetic anhydride acid 85% lactic acid	1	***	***	***	***
85% triethanolamine	102-71-6	***	***	***	***
90% formic acid	64-18-6		**	*	*
Acetaldehyde Acetane	75-07-0 67-64-1	***	***	*	
Alcoholic beverages	/	***	***	***	***
Ammonium acetate	631-61-8	***	***	***	***
Ammonium carbonate	10361-29-2	***	***	***	***
Ammonium chloride Amyl acetate	12125-02-9	***	***	***	***
Amyl alcohol	71-41-0	***	***	***	***
Aniline	62-53-3	**	**	*	
Animal fats	/	*	***	***	
Asphalt Beet-root	/	***	*	***	***
Benzaldehyde	100-52-7	^^^	^^^	*	***
Benzene	71-43-2			*	
Benzyl alcohol	100-51-6	*	**	**	**
Bichromate of potash	7778-50-9	***	***	***	***
Bleach Borax	/	***	***	***	***
Brake oils (lockheed)	1	*	***	***	*
Bromides	1	***	***	***	
Butter	/ /		***	***	*
Butyl acetate Butyl alcohol (or n-butanol)	123-86-4 71-36-3	***	***	*	***
Calcium acetate	62-54-4	***	***	***	***
Calcium chloride	10043-52-4	***	***	***	***
Calcium fluophosphate	/	***	***	***	***
Calcium hydrate Calcium nitrate	1305-62-0 10124-37-5	***	***	***	***
Carbolic acid	10124-07-0	*	**	**	**
Carbon tetrachloride	56-23-5		*	**	*
Castor oil	/		***	***	
Chlorinated lime	7778-54-3 7782-50-5	***	***	***	***
Chlorine Chloroacetone	//02-30-3	***	***	XXX	XXX
Chloroform	67-66-3		*	**	
Chromic acid	7738-94-5			*	**
Citric acid	77-92-9 1336-21-6	***	***	***	***
Concentrated ammonia (aqueous solution) Concentrated boric acid	10043-35-3	***	***	***	***
Concentrated laundry potash	/	***	***	**	***
Concentrated laundry soda	/	***	***	*	*
Concentrated sulphuric acid Creosote	7664-93-9 8001-58-9		*		**
Cresol	1319-77-3	*	***	***	***
Crystallisable acetic acid	64-19-7	***	***	**	*
Cutting oils	/		***	***	***
Cyclohexane	110-82-7 108-93-0		*	**	
Cyclohexanol Cyclohexanon	108-94-1	***	***	***	***
Diacetone alcohol	/	***	***		*
Dibutyl ether	142-96-1		*	***	
Dibutyl phtalate	84-74-2 111-42-2	**	*	***	
Diehanolamine Diesel oils	111-92-2	***	***	***	***
Diluted sulfphuric acid (battery)	1	***	***	***	***
Dioctylphtalate	117-81-7	**	***	***	
Dyes (hair dyes) Ethyl acetate	141-78-6	***	***	***	***
Ethyl acetate Ethyl alcohol (or ethanol)	84-17-5	***	***	***	***
Ethylamine	75-04-7	*	*	***	*
Ethylaniline	1	*	***	***	*
Ethylene dichloride	107-06-2			*	1.7.1
Ethylene glycol Fertilisers	107-21-1	***	***	***	***
Fish and shellfish	1	*	***	***	*
Fixing agents	1	***	***	***	***
Fluorides	50-00-0	***	***	***	***
Formaldehyde Fuel oil	50-00-0	***	***	***	***
Fuels	/		*	***	*
Furol (furfural or furaldehyde)	98-01-1	***	**		
Gas-oil	/		*	***	*
Gasoline Glycerin	56-81-5	***	**	***	*
Glyceropthalic paint	00-81-0	***	***	***	***
Glycols	107-21-1	***	***	***	***
Hair bleaching agents	1	***	***	***	***
Hair-curling products	110 54.2	***	***	***	***
Hexane Household detergents	110-54-3	**	*	***	*
Hydraulic fluids (esters)	1	***	***	***	*
Hydraulic oils (petrol)	1		*	***	*
Hydrobromic acid	10035-10-6	***	*	*	*
Hydrogen peroxide Isobutyl alcohol (Isobutanol)	/ 78-83-1	***	***	***	***
www.yr dicornor (roobacturior)	10001	1 ^^^	- ^ ^ ^	~^^	

	n°CAS	Natural la	Neoprene	Nitrile	PVC vinyl
Isobutyl ketone	/	***	***		
Kerosene Lard oil	/		*	***	*
Linseed oil	/		***	***	*
Lubricants oils	/		*	***	*
Magnesia Methyl acetate	1309-48-4 79-20-9	***	***	***	***
Methyl alcohol (or methanol)	67-56-1	***	***	***	***
Methyl ethyl ketone	1	***	**		
Methyl isobutyl ketone	/10.00.0	**	*		
Methyl salicylate Methylamine	119-36-8 74-89-5	***	***	***	***
Methylaniline	100-61-8	*	*	***	***
Methylcyclopentane	96-37-7		*	***	*
Methylene chloride Methylformiate	75-09-2 /	*	***	*	*
Milk and dairy products	/	*	***	***	
Mineral greases	/		*	***	*
Mono ethanol amine	141-43-5	***	***	***	***
Naphta Naphtalene	91-20-3		*	**	*
N-butylamine	109-73-9	***	***	***	***
Nickel chloride	7718-54-9	***	***	***	***
Nitrate of ammonium Nitrate of potassium	6484-52-2 7757-79-1	***	***	***	***
Nitrobenzene	98-95-3	~~~	*	*	^^^
Nitrohydrochloric acid	/		**	*	*
Nitropropane	/	***	**	*	
Non-alcoholic beverages Octyl alcohol	111-87-5	***	***	***	***
Oleic acid	112-80-1	*	***	***	*
Olive oil	/		***	***	*
Oxalic acid Paraffin oil	144-62-7	***	***	***	***
Peanut oil	/		***	***	*
Perfumes and essences	1	***	***	***	***
Petroleum ether	/		**	***	
Petroleum products Petroleum spirit	/		*	**	*
Phenyl chloride	108-90-7		*	*	
Phosphates of calcium	10103-46-5	***	***	***	***
Phosphoric acid	7664-38-2	***	***	***	***
Polyester resins Potash flakes	/	***	***	**	*
Potassium acetate	127-08-2	***	***	***	***
Potassium bicarbonate	298-14-6	***	***	***	***
Potassium carbonate Potassium chloride	584-08-7 7447-40-7	***	***	***	***
Potassium cyanide	151-50-8	***	***	***	***
Potassium manganate	7722-64-7	***	***	***	***
Potassium phosphates	/ 7778-80-5	***	***	***	***
Potassium sulphate Poultry	///0-00-0	*	***	***	***
Propylene dichloride	78-87-5			*	
Quick lime	1	***	***	***	***
Shampoos Silicates	/	***	***	***	***
Slaked lime	/	***	***	***	***
Soda flakes	/	***	***	*	*
Sodium bicarbonate	144-55-8 7891 00 5	***	***	***	***
Sodium bisulphite Sodium carbonate	7631-90-5 497-19-8	***	***	***	***
Sodium chloride	7647-14-5	***	***	***	***
Sodium chlorite Sodium nitrate	7681-52-9 7631-99-4	***	***	***	***
Sodium phosphates	/031-89-4	***	***	***	***
Sodium sulphate	7757-82-6	***	***	***	***
Soybean oil	/		***	***	*
Stannic chloride Stearic acid	/ 57-11-4	*	***	***	***
Styrene	100-42-5	^^	*	*	*
Sulphites, bisulphites, hyposulphites	1	***	***	***	***
Sulphuric ether (pharmacy)	/	*	***	***	*
Tartaric acid Tetrachloroethylene	/ 127-18-4	***	***	***	***
THF = tetrahydrofurane	109-99-9	**	*		
Toluen	108-88-3	*	*	**	*
Tributyl phosphate	126-73-8	*	**	**	*
Trichlorethylene Tricresyl phosphate	79-01-6 1330-78-5	***	*	*	**
Trinitrobenzene	/		*	**	*
Trinitrotoluol	1		*	**	*
Triphenyl phosphate Turbine oils	115-86-6 /	*	***	***	*
Turnipseed oil	/		*	***	
Turpentine	1		*	***	*
Vinegar and condiments	/	***	***	***	**
Washing powders Water paint	/	***	***	***	***
Weed killers	/	***	***	***	***
Wood turpentine	/		*	***	*
Xylene Xylophene	/		*	**	*
Zinc sulphate	7733-02-0	***	***	***	***

Not recommended Average * Good ** Very good ***



FOOD COMPATIBILITY



▶ FOOD COMPATIBILITY **IS GOVERNED BY:**

Regulation (EC) N° 1935/2004 of the European Parliament and of the Council of 27th October 2004 on materials and articles intended to come into contact with foodstuffs.

Materials and articles must be manufactured in compliance with good manufacturing practice so that, under normal or foreseeable conditions of use, they do not transfer their constituents to food in quantities which could:

- Endanger human health;
- Bring about an unacceptable change in the composition of the food or a deterioration in the organoleptic characteristics thereof.

Food contact of plastic materials is governed by Regulation (EU) No 10/2011 and the related requirements.

Materials PVC/Vinyl or even Latex/Nitrile gloves (unless local legislation exists) are directly subject to these regulations.

They define:

- Positives lists of authorized constituents ;
- The purity criteria applicable to some of these constituents;
- Special migration limits in foodstuffs for certain constituents;
- Maximum residual quantities of some constituents in the material;
- An overall migration limit in foods.
- A limit of metal content for plastic materials and objects.

Annex III of Regulation (EU) 10/2011 provides the list of stimulants to be used for testing migration of constituents of plastic materials and articles intended to come into contact with foodstuffs:

- Aqueous foods (pH > 4.5): Simulants A, B and C.
- Acid food (pH ≤ 4.5): Simulant B;
- Alcoholic foods(≤ 20%): Simulant C;
- Alcoholic foods (> 20%): Simulant D1.
- Fatty foods: Simulants D1 and D2.
- Foods containing free surface fats: Simulant D2.
- Dry foods: Stimulant E.

DISPOSABLE GLOVES

Standard EN455 defines the quality requirements for non-reusable medical gloves.

- 1 Detection of holes: Airtightness test.
- 2 Physical properties: Verification of the size, thickness and strength of the glove.
- 3 Biological evaluation: Verification of the conformity of the materials.

INTERNATIONAL MAINTENANCE **CODE FOR ARTICLES**

	TEXTILE
><	No treatment.
_	Moderate treatment.
=	Very light treatment.
	WASHING
40	Maximum temperature 40°C. Normal mechanical treatment. Normal temperature rinsing. Normal spinning.
40	Maximum temperature 40°C. Reduced mechanical treatment. Rinse at gradually decreasing temperature. Reduced spinning.
Kut	Wash by hand. No machine washing. Maximum temperature 40°C. Treat with care.
×	Do not wash. Treat with care when wet.
	DRYING
\odot	Can be dried in rotating drum dryer. Normal program.
0	Can be dried in rotating drum dryer. Moderate, low temperature program.
X	Do not dry in rotating drum dryer.
	CHLORINATION
\triangle	Chlorination (chlorine bleach).
CI	Chlorination possible solely in cold, diluted solution.
×	No chlorination.
	IRONING
	Iron at the maximum iron sole plate temperature of 200°C.
	Iron at the maximum iron sole plate temperature of 150°C.
	Iron at maximum iron sole plate temperature of 110°C. Steam treatment presents risks.
X	Do not iron. Steam treatment is forbidden.
	DRY-CLEANING
0	Dry cleaning. The circle stands for dry-cleaning for textile articles (Leather and fur articles are excluded). It contains information on the various dry cleaning treatments.

Dry-cleaning prohibited



CHEMICAL PROTECTIVE CLOTHING



EN14126

PROTECTION PROTECTIVE CLOTHING AGAINST INFECTIVE AGENTS

This standard specifies the requirements and test methods concerning reusable protective clothing for limited use providing protection against infective agents. Associated with standards for protective clothing against chemical products, the letter B is added after the garment type.

Examples: TYPE 6-B / TYPE 5-B / TYPE 4-B / TYPE 3-B

This standard sets out the minimum requirements for the following types of limited use and re-useable chemical protective clothing:

- -Clothing protecting the full body with liquid-tight connections between the various clothing parts (Type 3: liquid-tight clothing);
- Clothing protecting the full body with spray-tight connections between the various clothing parts (Type 4: spray-tight clothing);

Note: These standards were formerly entitled EN1512 (Type 4) and EN1511 (Type 3).



EN13034 TYPE 6

PROTECTIVE CLOTHING AGAINST LIQUID CHEMICALS

Requirements for chemical protection clothing offering limited performance against liquid chemical products (type 6 equipment), including clothing for partial body protection (Type PB [6]).

This standard sets out the minimum requirements for limited use and reusable limited performance chemical protective clothing. Limited use chemical protective clothing is intended for use in cases of a potential exposure to **light sprays**, liquid **aerosols** or low-pressure, **low-volume splashes**, against which a complete liquid permeation barrier (at the molecular level) is not required.

STANDARD	TYPE Chemical	PROTECTION
EN13034	6	Against splashes
EN13982-1	5	Against dust (asbestos)
EN14605	4	Against mists
EN14605	3	Against sprays



EN13982-1 TYPE 5

PROTECTIVE CLOTHING FOR USE AGAINST SOLID PARTICLES

Performance requirements for protective clothing against chemical products offering full body protection against air-borne solid particulates (type 5 clothing). This standard sets out the minimum requirements for chemical protection clothing resisting penetration of solid particulates suspended in air (type 5). This clothing offers full body protection, including the torso, arms and legs, such as one or two-piece coveralls, with or without hood or face-shield, with or without foot protection.



EN14605 TYPE 4 TYPE 3 ▶ PROTECTIVE CLOTHING AGAINST LIQUID CHEMICALS

Requirements for chemical protection clothing with liquid-tight (type 3) or spraytight (type 4) connections, including items providing only partial body protection (types PB [3] and PB [4]).

EXAMPLES OF APPLICATIONS						
Applications	Risks	Level of protection				
Work / Maintenance	Fouling	Category I / Non PPE				
Industrial cleaning	Exposure to hazardous chemical substances and particles	Type 6 Type 5				
Asbestos abatement / removal (dust > 1 micron)	Contact with particles or fibres	Type 5				
Agriculture and horticulture (Handling of herbicides / pesticides / fungicides / fertilizers)	Contact with harmful elements	Type 4				
Paint spraying (Solvents)	Contact with low-concentrate aerosols	Туре 4				
Paint spraying (Preparation / Mixing)	Contact with high concentrate aerosols	Туре 3				
Laboratories / Chemical Industries	Projection of chemical products	Туре 3				
Emergency / Rescue Personnel	Bacteriological contamination	Type 4-B Type 3-B				

TESTS									
General	Tools Consider and Survey	Level of protection							
performance	Tests & Specific performance	1a	1b	1c	2	3ª	4 a	5	6ª
	Internal pressure	Х	Х	Х	-	-	-	-	-
	Leak to interior	-	Χp	Х	Х	-	-	-	-
	Penetration by a jet of liquid	-	-	-	-	Х	-	-	-
Performance requirements for the whole garment	Penetration by a spray	-	-	-	-	Х	Х	-	-
	Against solid particles	-	-	-	-	-	-	Х	-
	Penetration by a spray		-	-	-	-	-	-	Х
	Abrasion / Tearing / Perforation / Seams	Х	Х	χ	Х	Х	Х	Х	Х
	Resistance to tensile strength	Х	Х	Х	Х	Х	Х	-	Х
	Resistance to flame	Х	Х	χ	Х	Х	Х	Х	Х
Performance requirements	Resistance to cracking by bending	Х	Х	Х	Х	Х	Х	Х	-
for the constituent materials of the garment	Resistance to cracking by bending at -30°C	Х	Х	Х	Х	Х	Х	-	-
the yannent	Resistance to permeation	Х	Х	Х	Х	Х	Х	-	-
	Resistance to penetration by liquids	-	-	=	=	-	-	-	Х
	Impermeability to liquids (repulsion)	-	-	-	-	-	-	-	Х

- a When the protection equipment only protects certain parts of the body (torso, arms, legs), only the performance requirements for the constituent materials of the garment are required (type 6, 4 and 3).
- b Applicable for suits whose respiratory mask is separate and removable.

HEAT PROTECTIVE CLOTHING





A1 Class 2

► PROTECTION USED IN WELDING AND ALLIED PROCESSES

This standard sets out the performance requirements for protective clothing for use by operators in welding and allied processes with comparable risks.

This type of protective clothing is intended to protect the wearer against molten metal splash, short contact

with flame and UV radiation. It is intended to be worn at ambient temperature, continuously for up to 8 hours.

EN14116



3 / 501 /75

Indice: 1 / 2 or 3
Nb: Number of washes
I: Industrial wash
T0: Service temperature

PROTECTION AGAINST HEAT AND FLAME

This standard sets out the performance requirements for limited flame spread materials and material assemblies used in protective clothing. Limited flame spread materials and material assemblies are used to make protective clothing in order to reduce the risks of flammability of the garment and the dangers it may cause. They are suitable for protection against accidental contact with small igniting flames, in conditions with no significant heat danger.

Class 1

protection against low risks during welding techniques and situations producing fewer projections and low radiant heat.

Class 2

protection against higher risks during welding techniques and situations producing more projections and a higher radiant heat.



TECHNICAL PROTECTIVE CLOTHING

EN ISO 13688

▶ GENERAL REOUIREMENTS

Reference standard, not for use alone, but only in association with another standard containing the protection performance requirements.

This standard specifies general performance requirements for ergonomics, innocuousness, size designation, durability, ageing, compatibility and marking of protective clothing and the information to be supplied by the manufacturer with the protective clothing.



EN1149-5

PROTECTIVE CLOTHING TO DISSIPATE STATIC ELECTRICITY

This European Standard specifies requirements for materials and the design of protective electrostatic dissipation clothing used in conjunction with a grounded system in order to prevent incendiary discharges. WARNING: These requirements may be insufficient in oxygen enriched flammable environments. This standard is not applicable for protection against mains voltages.

The control of undesirable static electricity on the person is often necessary.

The electrostatic potential may, indeed, have serious consequences on the charged individual, because it can be high enough to cause dangerous sparks.

After a risk assessment, the wearing of protective electrical dissipation clothing may be necessary. The use of clothing certified according to EN1149-5 is then adapted

The ATEX Directive 1999/92/EC, in its Annex II-A-2.3, requests that workers be equipped with work clothes made of materials that do not produce electrostatic discharges that can ignite explosive environments.

The electrostatic potential can also affect equipment sensitive to electric discharge. And antistatic clothing are often used on electronic manufacturing sites, assembling semiconductors for example. Finally, they are used on sites with controlled atmospheres such as automotive paint workshops, to avoid the emission of particles that may be deposited on the body paint.

The antistatic charge dissipation can be provided by a process limiting the build up of charge, or by adding carbon or metal wires. People wearing protective electrostatic charge dissipation clothing must always be grounded with a resistance of less than $10^8 \Omega$, for example, by wearing appropriate footwear such as the safety shoes stated in EN ISO 20345, or by other suitable means.



EN381

PROTECTION FOR USERS OF HAND-HELD CHAINSAWS

This standard specifies the requirements to be used to assess the resistance of protective clothing to cutting by hand-held chainsaws. It is divided into several parts:

EN381-5 Specifies the requirements for leg protectors.
 EN381-7 Specifies the requirements for protective gloves.
 EN381-9 Specifies the requirements for protective gaiters.
 EN381-11 Specifies the requirements for upper body protectors.

The cut tests are conducted using 4 chain speeds:

Class 0	16 m/s
Class 1	20 m/s
Class 2	24 m/s
Class 3	28 m/s

The protective zone on leg protectors is coded using three letters A, B or C, corresponding to the coverage surface of the cut-proof material (Type A, Type B or Type C).

Marking:

EPICEA 3	MELEZE 3
EN381-11	EN381-5
	rCA
Class 0	Type A - Class 1



EN1073-2

PROTECTIVE CLOTHING AGAINST RADIOACTIVE CONTAMINATION

This standard specifies the requirements and test methods for non-ventilated protective clothing against radioactive contamination in the form of particles. Clothing of this type is designed only to protect the body, the arms and the legs of the wearer, but it may be used with accessories that protect other parts of the wearer's body (for example, boots, gloves, respiratory protective device - APR).

The garments are classified according to their nominal protection factor (ratio between the concentration of test particles in the ambient atmosphere and the concentration of test particles inside the garment), determined in relation to the total inward leakage (ratio between the concentrations of test particles insider the garment and inside the test chamber).

The classes are as follows:

CLASS	NOMINAL PROTECTION FACTOR					
3	500					
2	50					
1	5					



EN ISO 20471

► HIGH VISIBILITY CLOTHING

This standard specifies the requirements for protective clothing aiming to signal the presence of the wearer visually, so that he may be detected and seen in hazardous situations, in all conditions of daylight, and night under illumination of car headlights.

There are three classes of high-visibility clothing. Each class must have minimum surfaces of visible material constituting the garment; the higher the class, the more visible the garment:

	CLASS 3	CLASS 2	CLASS 1
Background material (Fluorescent)	0,80 m²	0,50 m²	0,14 m²
Retroreflective material (Bands)	0,20 m ²	0,13 m²	0,10 m²

Marking:

X: Class of high visibility surface (from 1 to 3)

EN ISO 20471



EN ISO 20471

2: Class of the visibility surface (1 to 3) Max. 25x: Optional marking, number of maximum washes authorized for the model. On this example: 25 washes maximum (see indication of service temperature on the garment tag).

Max. 25x

VISUAL ACCESSORIES EN13356 FOR NON PROFESSIONAL USE

This standard specifies optical performance requirements for accessories that are worn, attached to, or carried by individuals and designed for non-professional use. The visualization accessories conforming to this standard are intended to visually indicate the presence of the user when illuminated by vehicle headlights on unlit roads. This standard does not apply to clothing.

FOUL WEATHER PROTECTIVE CLOTHING



EN342

▶ PROTECTIVE CLOTHING **AGAINST COLD**

This standard specifies the requirements and performance test methods for protective clothing against cold at temperatures lower than -5°C (cold store / extreme cold workers).

There are two types of garment:

Garments: covering part of the body, e.g. parka, jacket, coat.

Suits: covering the whole body (trunk + legs), e.g. coveralls, parka & dungarees.

X (undergarment B/C/R): / cler of the garment

X: Class of air permeability, AP

X: Class of resistance to water penetration WP (Optional)





EN14058

▶ PROTECTIVE CLOTHING AGAINST COOL ENVIRONMENTS

This standard specifies the requirements and performance test methods for protective garments (vests, jackets, coats, trousers) against cool environments.

These garments are for use in moderate low temperatures (-5°C and over) to protect against local body cooling and are not only for outdoor use such as in the construction industry, but may also be used for indoor activities, such as in the food processing industry.

These garments are not always necessarily made of air impermeable or watertight materials. Therefore, in this European standard, these requirements are optional.

X: Class of heat resistance, R_{rt}

X: Class of air permeability, AP

X: /_{cler} of the garment (Optional)

X: Class of resistance to water penetration

WP (Optional)





EN343

PROTECTIVE CLOTHING **AGAINST RAIN**

This standard specifies the requirements and test methods applicable to the materials and seams of protective clothing against foul weather (for example precipitation in the form of rain or snow), fog and ground humidity.

	TESTS			
	Code	EN343	EN342	EN14058
Class of thermal resistance (in m².K/W)	R _{ct}	-	-	Х
Class of water vapour resistance (in (m².Pa)/W)	R _{et}	Х	-	-
Class of air permeability (in mm/s)	АР	-	Х	Х
Resistance to water penetration (in Pa)	WP	X	X (optional)	X (optional)
Resultant effective thermal insulation (in m².K/W) Measured on a moving manikin	/ _{cler}	-	Х	Х

X: Resistance to water penetration, Wp

X: Water vapour resistance, R_{at}

OTAKE FN343



• THERMAL RESISTANCE (R,,) IN M2.K/W:

Measurement of the thermal insulation provided.
Divided into 4 classes (from 1 to 4) from the least insulating to the most insulating.
The higher the value, the greater the thermal insulation.

• WATER VAPOUR RESISTANCE (R_{et}) IN (M².PA)/W:

Measures the evaporative resistance, i.e. the product's obstacle to the passage of water vapour, or the barrier it offers to evaporation of transpiration on the surface of the skin. The higher a product's water vapour resistance, the greater this product's barrier to the passage of water vapour. A breathing product has a low water vapour resistance.

Divided into 3 classes (from 1 to 3) from the least breathable to the most breathable.

• AIR PERMEABILITY (AP) IN mm/s:

Determines the complex's permeability to air.
Divided into 3 classes (from 1 to 3) from the least airtight to the most airtight.

• RESISTANCE TO WATER PENETRATION (WP) IN PASCAL:

Measurement of the outer material and seams' resistance to water penetration under a water pressure of (980+/-50) Pa/min.

Divided into 3 levels (1 to 3) from the least impermeable to the most impermeable.

• RESULTANT EFFECTIVE THERMAL INSULATION:

Measured on moving dummy $(/_{clor})$.

The thermal insulation coefficient, expressed in m².K/W, is used to determine the optimum usage temperature of the garment in relation to the individual's activity and his exposure time.

Thermal insulation is measured with undergarments of type:

- **(B) for ensembles** (Undershirt with long sleeves, long underpants, socks, bootee + thermojacket, thermopants, knitted gloves, balaclava)
- **(R) for garments** (Undershirt with long sleeves, long underpants, socks, bootees, jacket, trousers, shirt, knitted gloves, balaclava)
- (C) provided by the manufacturer

AMBIENT TEMPERATURE CONDITIONS FOR HEAT BALANCE FOR DIFFERENT LEVELS OF ACTIVITY AND EXPOSURE DURATIONS								
ACTIVITY								
Standard applicable	Insulation m².K/W		Very light Stationary standing Wearer moving lightly Wearer in 115 W/m² 115 W/m² 1					
	/ cler	8h	1h	8h	1h	8h	1h	
EN14058	0,170	19°C	11°C	11°C	2℃	0°C	-9°C	
EN14058	0,230	15°C	5°C	5°C	-5°C	-8℃	-19°C	
EN342	0,310	11°C	-2°C	-1°C	-15°C	-19°C	-32°C	
EN342	0,390	7℃	-10°C	-8°C	-25°C	-28°C	-45°C	
EN342	0,470	3℃	-17°C	-15°C	-35°C	-38°C	-58°C	
EN342	0,540	-3℃	-25°C	-22°C	-44°C	-49°C	-70°C	
EN342	0,620	-7℃	-32°C	-29°C	-54°C	-60°C	-83°C	

EN14404 ► KNEE PROTECTION

This European Standard provides the requirements and test methods for protective knee devices used by people that have kneel to carry out their work. This standard does not apply to the knee protection that are medical devices and are designed for sport.

	KNEE PROTECTION
Type 1	Knee protection independent of other product and attached around the leg
Type 2	Plastic foam or other padding inserted in the pockets of trousers or permanently attached to the trousers
Type 3	Devices that are not attached to the body but implemented during the movement of the user. They can be provided for each knee or both knees together
Type 4	Protection of one or both knees, part of devices with additional functions, such as helping to stand or kneel. The knees protection can be worn on the body or independently



SAFETY SHOES-BOOTS

STANDARDS

EN ISO 20344

This standard defines the test methods for safety footwear, protective footwear, and occupational shoes.

It may be used only in conjunction with standards EN ISO 20345 and EN ISO 20347, which specify the requirements for the shoes as a function of specific levels of risk involved.

EN ISO 20345 SPECIFICATION FOR SAFETY FOOTWEAR FOR THE WORKPLACE.

In reference to standard EN ISO 20344, this European standard defines the basic and the additional (optional) requirements for safety footwear for the workplace, marked «S». The safety shoe is equipped with safety toe caps designed to withstand a maximum impact of 200 joules and crushing up to 15 kN.

EN ISO 20347 >> SPECIFICATION FOR OCCUPATIONAL

FUR UCCUPATIONAL SHOES MARKED «O».

These shoes are different from safety/protective footwear in that they have no protective toe cap for impact and crushing.

EN ISO 61340-4-3

This standard specifies the requirements and tests for electrostatic shoes with specific applications. It describes the test methods used to determine the electrical resistance of shoes used to control the electrostatic potential of the user's workstation.

EN ISO 20349-1 EN ISO 20349-2

This standard specifies the requirements and tests for protective shoes against heat risks and molten metal splashes as in foundries or welding.

THE PARTS OF A SHOE





SIZE CORRESPONDANCE TABLE														
EU	35	36	37	38	39	40	41	42	43	44	45	46	47	48
UK	2	3	4	5	6	6.5	7	8	9	10	10.5	11	12	13
US	3	4	5	6	7	7.5	8	9	10	11	11.5	12	13	14
cm	23.1	23.7	24.4	25.1	25.7	26.4	27.1	27.8	28.4	29.1	29.7	30.3	31	31.6
mm	231	237	244	251	257	264	271	278	284	291	297	303	310	316

• SB OR S1 TO S5 OR SBH (SAFETY FOOTWEAR) • OB OR O1 TO O5 OR OBH (OCCUPATIONAL SHOES)					
CLASS 1 or 2	EN ISO 20345	EN ISO 20347			
ALL MATERIALS	SB: basic properties	OB : basic properties			
CLASS 1 Leather shoes and other materials, except rubber or polymer shoes	\$1: basic properties plus: - closed back - anti-static - energy absorbing heel - outsole resistance against hydrocarbons	Ot: basic properties plus: - closed back - hydrocarbon-resistant sole - anti-static - energy absorbing heel			
	\$2: the same as \$1 plus: - waterproof	02: the same as 01 plus: - waterproof			
	\$3: the same as \$2 plus: - puncture resistant sole - studded sole	03: the same as 02 plus: - puncture resistant sole - studded sole			
CLASS 2 All rubber shoes (fully cured*) or all polymer (fully moulded)	\$4: basic properties plus: - closed back - anti-static - energy absorbing heel - outsole resistance against hydrocarbons	O4: basic properties plus: - anti-static - energy absorbing heel			
	\$5: the same as S4 plus: - puncture resistant sole - studded sole	05: the same as 04 plus: - puncture resistant sole - studded sole			
HYBRID SHOES Rubber foot (fully cured) or all polymer (fully moulded) / Top leather upper and other materials	SBH: properties specific to hybrid safety shoes	OBH : properties specific to hybrid work shoes			

	SYMBOLS FOR INDIVIDUAL SPECIFICATIONS En ISO 20345	
	Puncture resistant sole	Р
	Electrical properties:	
	Conductive shoe	С
	Antistatic shoe	А
	Insulating shoe	See EN50321
Whole shoe	Resistance to aggressive environments:	
Wildle Slide	Heat-insulated sole	HI
	Sole insulated against cold	CI
	Energy absorbing heel	E
	Water-resistant of the whole shoe (waterproof shoes in leather and other materials, class 1)	WR
	Metatarsal impact protection	М
	Ankle protection	AN
	Cut-resistant upper	CR
Upper	Resistance of the rod penetration and water absorption (shoes in leather and other materials, class 1)	WRU
	Contact-heat resistant outsole	HRO
Outsole	Oil-resistant outsole	FO
	Isolation of the sole against heat. Sandbox test 150°C, 30 minutes of exposure (HI-1)	HI

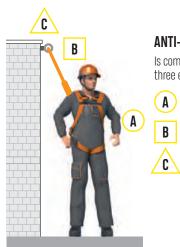
SYMBOLS FOR INDIVIDUAL SPECIFICATIONS En ISO 20349-1 • En ISO 20349-2					
Floor types Symbols	Symbols				
Resistance to molten metal splashes, with use of aluminum as molten metal during the test (EN ISO 20349-1)	AL				
Resistance to molten metal splashes, with use of cast-iron as molten metal during the test (EN ISO 20349-1).	FE				
250°C sandbox test, 40 minutes of exposure (HI-3). (EN ISO 20349-1)	Н				
WG indicates that the footwear complies with the requirements defined for welding footwear. (EN ISO 20349-2)	WG				

RESISTANCE TO SLIPPING					
Floor types	Symbols				
Hard industrial floors, for indoor use (such as food industry tiled flooring)	SRA				
Hard industrial type floors for indoor or outdoor uses (paint or resin type flooring in industry)	SRB				
All types of hard floors for multiple uses indoors or outdoors	SRC				



PERFECT SAFETY

Fall arrest equipment includes different products which have to be adapted for each risk to ensure the necessary protection.



ANTI-FALL SYSTEM

Is comprised of at least three elements

HARNESS

FALL ARRESTER

ANCHORAGE POINTS





THE HARMONIZED EUROPEAN STANDARDS

All protective equipment against falls from a height are submit to European standards. You will find, below, a summed up presentation of every standard.

GENERAL STANDARDS

EN363 ► FALL ARREST EOUIPMENT

Set of personal protective equipment against falls from height, linked to one another and intended to stop a fall. A fall arrest equipment must contain at least a full body harness and a fall arrest equipment.

TEST METHOD **EN364**

Describes the different test methods of the various PPE against falls from height, as well as the test equipment.

GENERAL REQUIREMENTS FOR THE INSTRUCTIONS **EN365** FOR USE AND THE MARKING

Description of the marking that must figure on the PPE against falls from height and of the information which must appear on the instructions for use. Instructions for periodic inspections shall include inter alia:

- A recommendation for the frequency of periodic inspections, taking into account factors such as regulation, the type of equipment, frequency of use, and environmental conditions. This recommendation shall include a clause stating that the periodic inspection should be conducted at least once every twelve months; - A warning to emphasise that periodic inspections should be only carried out by a competent person in strict compliance with the manufacturer periodic inspection procedures.

VISUAL INSPECTION FOR:

Harnesses, belts, lanyards, ropes, energy absorbers, self retractable devices that canno't be dismantled (e.g. AN102), connectors, our kit components (except ELARA270), temporary anchors (tripod, LV201 ...)

MECHANICAL INSPECTION FOR:

Self retractable devices that can be dismantled, rescue equipment (e.g. TC013)

SPECIFIC STANDARDS

EN361 FULL BODY HARNESS

Body securing device intended to stop falls. The full body harness can be made of straps, buckles and other elements; set and adjusted in a right way on the body of an individual to secure him during a fall and afterwards.

MOBILE FALL ARRESTER ON RIGID ANCHORAGE LINE

Equipment consisting of a mobile fall arrester with self-locking, integral with its rigid anchorage line (rail, cable...). An energy reducer can be built-in on the equipment.

MOBILE FALL ARRESTER ON FLEXIBLE ANCHORAGE EN353-2 LINE

Equipment consisting of a mobile fall arrester with self-locking, integral with its flexible anchorage line (rope, cable...). An energy reducer (absorber) can be built-in in the equipment.

EN355 ENERGY ABSORBER

Component of a fall arrest equipment, which quarantees the stop of a fall from a height in safety by reducing the impact of the shock.

WARNING: If we associate a lanyard energy absorber, the total length of the entire device must not exceed 2 m.

EN360 SELF-RETRACTABLE FALL

Fall arrester with self-locking device and a self-retractable system for the lanyard. An energy reducer (absorber) can be built-in in the equipment.



EN362 ► CONNECTOR

Connection element or equipment component. A connector can be karabiner or a snap hook.

Class A: Anchorage connector, automatic lock used as the component and designed to be connected directly to a specific type of anchorage.

Class B: Primary connector with automatic lock used as the component.

Class M: Multi-purpose connector, primary or quick opening, used as a component, which can be loaded along its major axis or minor axis.

Class 0: Ouick opening connector used in long-term or permanent applications, screw lock. When completely screwed this part is a supporting part of the connector.

Class T: Manufactured end connector, automatic lock, designed as part of a subsystem for attachment so that the load is carried in a predetermined direction.

EN354 ► LANYARDS

Connection elements or equipment component. A lanyard can be in rope made of synthetic fibres, in metallic rope, in strap or in chain.

CAUTION: A lanyard without energy absorber must not be used as a fall arrest equipment.

EN358 WORK POSITIONING SYSTEM

A work positioning system consists of components (work positioning belt and lanyard) linked to one another to form a complete equipment.

EN813 ► SEAT HARNESSES

EN1891 SHEATHED BRAIDED ROPE WITH A LOW COEFFICIENT OF ELONGATION (STATIC ROPES)

EN12841 ► ROPE ACCESS SYSTEM

A rope device for work positioning. There are several types of device:

Type A: Rope adjuster device for safety support that accompanies the user during his changes in position and/or to adjust the safety support length and which automatically locks on the safety support under a static or dynamic load action.

Type B: Ascent device for work support, manually operated rope adjustment device which, when attached to a safety support, locks under the action of a load in one direction and slides freely in the opposite direction. A type B device must be used in conjunction with a type A device connected to a separate safety support.

Type C: Descending device for work support, manually operated rope adjustment device with friction which allows the user to perform a controlled downward movement and to stop, by releasing, anywhere on the safety support. A type C device must be used in conjunction with a type A device connected to a separate safety support.

EN1496 ► RESCUE EOUIPMENT

Rescue lifting devices. There are several device classes:

Class A: Component or subset of a rescue equipment for the lifting of a person with the help of a rescuer, or on its own from a low point to a high point.

Class B: Analogue device of class A device, but with an additional function of manual control for descent to lower a person over a limited distance of

EN567 ► EQUIPMENT FOR MOUNTAINEERING AND CLIMBING

Safety requirements and test methods for blockers.

EN12275 ► MOUNTAINEERING AND CLIMBING EQUIPMENT

Safety requirements and test methods for connectors.

Type B: Primary connector with automatic lock with enough strength to

be used anywhere on a safety system.

Type H: HMS self-closing connector, usually pear-shaped, used to

link a mountaineer to a Via Ferrata anchoring system.

Type K: Via Ferrata self-closing connector, used primarily for

dynamic belaying, HMS type.

Type D: Directional connector or combination of one or more

connectors with automatic lock and straps, used to ensure

that the load is carried in a predetermined direction.

Type A: Special anchorage automatic lock connector only used to be

directly connected to a special type of anchorage.

Type () (Quicklink): Connector with screw lock. When completely screwed this

part is a supporting part of the connector.

EN12278 MOUNTAINEERING AND CLIMBING EQUIPMENT

Safety requirements and test methods for pulleys.

EN341 ▶ PPE AGAINST FALLS FROM HEIGHT

Descending devices, classified according to the following data

Class A: Descent energy W up to 7.5 x 10⁶ J
Class B: Descent energy W up to 1.5 x 10⁶ J
Class C: Descent energy W up to 0.5 x 10⁶ J

Class D: For a single descent. The descent energy depends on the maximum

descent height and the maximum nominal load.

EN795 2012 ► ANCHORAGE DEVICES

Element to which a personal protective equipment can be fastened.

Type A - NON PPE: Anchor device with one or more stationary anchor points with

the need of a structural anchor.

Type B: Anchor device with one or more stationary anchor points

without the need of a structural anchor.

Type C - NON PPE: Anchor device employing a flexible anchor line with maximum

deviation of 15°.

Type D - NON PPE: Anchor device employing a rigid anchor line with maximum

deviation of 15°.

Type E: Anchor device for use on surfaces with a maximum slope of

5°.

CEN/TS 16415

It is not a standard but a recommendation to test the anchors used by 2 or more persons. This technical specification was approved by CEN (European Committee for Standardisation) on July 30, 2012 for a provisional application and allows the use of an anchor by several persons simultaneously.

OTHER STANDARDS

EN1498

RESCUE STRAP

Directive 2006/42/CE

FOR THE MACHINES OR EQUIPMENTS WITH MOBILE FUNCTION.

EN13463-1

 NON-ELECTRICAL EQUIPMENT FOR POTENTIALLY EXPLOSIVE ATMOSPHERES

Basic method and requirements (risk analysis).

EN13463-5

instructions.

NON-ELECTRICAL EQUIPMENT FOR POTENTIALLY EXPLOSIVE ATMOSPHERES

Protection constructional safety "c" regarding the main mechanical devices; joints, bearings, gears, belts, clutch chains, brakes, coupling devices, conveyor belts. It sets out the requirements to be respected for the design and maintenance

It sets out the requirements and tests to be conducted according to the type of component.

DIRECTIVE 93/42/EEC EU REGULATION 2017/745

>

FOR THE MEDICAL DEVICES OR ACCESSORIES.

EN60529:1991 +A1:2000 + A2:2013

The protection index (IP) Classifies the level of protection offered by a material from solid and liquid intrusion. The index format is IPxx where the 1st digit indicates the protection from dust, the 2nd digit the protection from water intrusion.



GLOSSARY



Δ

ABRASION

Abrasion means wear through the action of friction. For the mechanical standard EN388 for gloves, EN343 for clothing and EN ISO20344 for shoes, the test consists of knowing when the product will deteriorate. The level is thus used to provide an indication of resistance and longevity.

ABS

Acrylonitrile Butadiene Styrene (ABS) is a thermoplastic used by the industry for rigid, light and molded products. This material is used for the construction of the hull of hard hats and for the casing of self-retracting fall arresters

ACCOMMODATIVE (REFLEX)

The cristallin acts as a lens enabling focusing in distance thanks to a muscle. Presbyopia (near-sightedness) is caused when it does not work properly. The accomodative reflex ensures clear vision.

ACETATE

A fibre obtained by the action of artificial resins on cellulose and with: low weight, excellent optical properties, heat stability, good resistance to most chemical products. It does have some disadvantages however: low resistance to abrasion and scratching, risk of ignition near a heat source greater than 100°C.

ACRYLIC

Synthetic fibre often resembling wool: Very high elasticity (so does not crease) - Very lightweight - Heat insulation equal to wool - Very high resistance to abrasion and traction. It is thermoplastic, has low absorbent power and dries very quickly.

ACTIVATED CARBON

Activated carbon, or absorbent carbon or medicinal carbon, is carbon which has been treated by pyrolysis to increase its absorbency. The basic material used is often coconut, but it can be wood, bone or some other carbon.

A grain of activated carbon has a network of pores and channels similar in dimension to molecules. Activated carbon creates a chemical principle enabling toxic gas / vapour molecules to be captured.

AEROFRESH CONTROL

System developed by Delta Plus, used to ventilate the shoe at the instep and ankle by means of an air vent.

AEROSOLS

In chemistry, an aerosol is a set of solid or liquid particles, in suspension in a gaseous medium. An aerosol is a suspension of very fine particle (colloidal size) in a gas (risk of contamination of the air ways).

A cloud is an example of an aerosol. Other examples are mist, smoke or the cloud of dust given off when you shake out a rug.

AEROSOLS AND AQUEOUS FOGS

Small droplets produced during pulverization.

ALUMINISED (LINING)

The DELTALU aluminised lining combines heat insulation performance with lightness; polyester wad on aluminium foil batting (perforated). It is a real barrier inside garments protecting against the cold and the wind.

ANCHOR LINE

Element on which a sliding fall arrester moves. The anchor line can be a rope, a cable or a rail

ANCHORAGE POINT

Element to which a fall arrest system can be connected.

ANTI-MIST (AB)

Surface treatment for lenses realized by dip coating the lens to prevent the formation of mist. This treatment is incompatible with mirror treatment of the lens itself.

ANTI-SCRATCH (AR)

Surface treatment of lenses to prevent superficial scratches. This treatment is obtained by dipping the lens in a «silicone» based solvent. It is colourless on the lense and does not alter vision.

ANTISTATIC

Property of a product, which prevents or limit the formation of static electricity. It is often requested in industrial environments for the risks of electrical discharge. Antistatic protective clothing are mainly used in explosive risk environments such as: chemical plants, refineries, weapons factories, mines.

They are also widely used to protect materials sensitive to electrical discharge such as on electronics manufacturing or semi-conductor assembly sites. Finally, they are used in controlled-atmosphere sites such as automobile paint workshops, the aim being to prevent the emission of particles which may be deposited on bodywork paint.

APV

Assumed Protection Value: complete and precise method for mesuring the hearing protector attenuation

- Attenuation per frequency (63Hz, 125Hz, 250Hz, 500Hz, 1000Hz, 2000Hz, 4000Hz & 8000Hz).
- Mean Attentuation: mean attentuation every 16 people tested.
- Standard Deviation: statistical presentation of the results.
- Assumed Protection: minimum attentuation at each Frequency level.
 It is computed by subtracting the standard deviation from the m

It is computed by subtracting the standard deviation from the mean attenuation for each considered frequency.

APF

Assigned Protection Factor.

Formula used to define the level of protection achieved in the workplace by 95% of operators trained in the wearing of respiratory protective devices or RPD and properly using after control a well maintained and adjusted device. Maximal concentration allowed corresponds to: NPF x OEL.

ΔΝΙ

Initials which mean «Average Quality Level». The standard ISO N° ISO2859 determines sampling for controls batch by batch, the AQL thus gives the maximum number of gloves with defects on 100.

GLOSSARY

ARAMIDES

Thermostable fibres used mainly in heat-proof applications. There are two types: para-aramides such as Kevlar® (anti-cut & resistant to flame and heat) and meta-aramides such as Nomex® (antistatic & resistant to flame and heat).

ARCH SUPPORT SYSTEM

This is an anatomical piece which provides rigidity to the instep and gives greater stability to the foot.

ARMBAND

Armbands are pieces of fabric worn around the arm. Fluorescent armbands are accessories, used for greater visibility. Attention these are not PPE.

ASSEMBLY

Assembly is the stage which consists of assembling the shoe upper on the form with the insole. Manufacturing occurs when this is assembled to the various midsoles and outsoles.

ATTACHMENT

(DORSAL) Connection point of a fall arrester on a harness.

(STERNAL) Connection point of a fall arrester on a harness.

(LATERAL) Connection point of a work restraint system or work positionning. (VENTRAL) Connection point of a work restraint system or work positionning.

1

BACK PAD

Element of a harness used to cross the straps at the back and position the D-ring at the correct height.

BIAS (FABRIC ON THE)

It is the use of a fabric part in its transversality (angle 45°) in order to obtain a flexible and deformable part. Examples of applications: strips or ribbons to be adapted to rounded forms (edge of a cuff, inside belt of trousers, etc.).

BLOUSON

A blouson is a short garment which only covers the torso and hugs the waist. A long jacket is an alternative between a blouson and a parka.

BLUE (LIGHT)

Harmful light emitted between 380 and more than 500 nanometres. Examples: intense sunlight, light used for the sedimentation of ceramics in dentistry, etc.

BRUSHED

Fabric on which one or both sides have a furry aspect obtained by the brushing operation.

The operation consists of passing the fabric over a rotating drum fitted with metal teasels. This treatment gives the article a soft, thick feel, making it warmer and bulkier, but removes toughness.

BUMP CAP

Bump cap and anti-scalp (EN812 standard). It is a PPE widely used in industry, especially for indoor use to protect the skull against shock contact with hard surfaces that could cause minor injuries.

It can not replace the helmet, in case it is required to wear a helmet with EN397 standard.

BUMPER CAP

Protective toecap designed to protect against premature wear on the front of the sole.

BURSITIS

Bursitis is an occupational illness of the knee, often occuring in tile layers, welders, floor covering layers, etc...

It comes in form of a gradual and slow increase in the volume of a bursa due to repeated microtraumas.

BUTT (LEATHER)

Part corresponding to the croup of the animal at the bottom of the skin (grain).

C

CANVAS (WEAVE)

The plain weave, is the basic fabric weave, and is characterised by inversed and alternating arrangement of the warp yarns on the weft yarns. There is no difference between the right and wrong sides of the fabric. This weave is particularly resistant to abrasion and very easy to waterproof.

CARBON (FIBRE)

The carbon fibre is used in materials for its anti-static properties.

CARROUSEL (INJECTION)

It's a machine with several injection stations (12 18 24 30 36) used to make soles.

CEMENTED (ASSEMBLY)

The most widely used manufacturing process for shoes in general: it consists of gluing the sole to the insole.

CEMENTED (SEAM)

Assembly procedure for seams by hot gluing to guarantee the sealing of seams for coated materials.

CHEST STRAP

Strap used in the design of a harness with the role of maintaining the position of the harness straps on the shoulders in order to prevent any risk of losing the harness in the event of a fall. The chest strap is not obligatory on a harness.

CHIN STRAP

Element used to prevent a safety helmet from falling. It may be simple or with a chin-cup, with two or four fastening points used for work at height.



CHLORINATED (GLOVE)

A washing process for the latex glove, washed in chlorinated water to produce unpowdered gloves. The advantages of unpowdered glove is: it is easier to put the glove on (a velvety contact), improves comfort and reduces the allergenic effect of the natural latex proteins carried by the powder.

CLEARANCE

The clearance is the height between the foot of a person equiped with a fall arrest system and the nearest obstacle.

CLOGGING

Phenomenon of dust filtre saturation. As respiratory protection is provided by a mechanical barrier (interlacing of fibres and electromagnetic reaction), when the filter is saturated, clogging occurs; the user feels difficulty in breathing.

CLOSING

This is the step during which the various parts of the upper, collar, vamp, quarters, gussets are assembled.

COATING

Coating is the operation by which the surface of a textile or leather is coated with a layer of chemical product with the aim of giving it properties of chemical resistance, or to enhance its mechanical resistance. They are mainly found in the form of polyvinyl chloride (PVC), polyurethane (PU), and natural (Latex) or synthetic (Nitrile, Neopren) elastomer. There are many applications, from tarpaulins to imitation leather including proofing of protective clothing.

CONCENTRATION

Ouantities of chemical products in the air breathed by a worker at his workstation, and which may adversely affect his health. Hence the need to have concentration limits below which the risks of intoxication are low or non-existant (TLV/STEL).

CONFINED SPACE

A confined space is characterized by a volume/ dimension ratio such as the natural exchange of indoor air with outdoor air being reduced and able to cause asphyxiation, intoxication, fire or explosion. In these areas, the risks are increased by various gas or smoke fumes. Examples: wells, tanks, sewers, ditches, accessible collectors, valve chambers, tanks...

CONNECTOR

Connecting element. A connector can be a carabiner or a hook.

COTTON

Natural textile fibre made of silky filaments surrounding the cotton seed: it is comprised of about 94% cellulose. Comfort, easy cleaning and good absorbency are its main properties.

CUFF

15 cm gauntlet found on welding gloves to protect wrist and forearm against molten metal splash.

DECIBELS

Acoustic pressure, in other words the intensity or amplitude of sounds and noises, expressed in decibels (dB), and determines the danger to humans. The safety level has been fixed at 85 dB: above this, pain occurs, and injuries appear.

Decibels are usually measured using a sound meter which converts the sound signal into an electric current.

DEFLECTOR

This is the role played by the helmet because of its rounded shape, it deflects the trajectory of a moving object, without stopping it suddenly, preventing a violent impact.

DERMIS

The skin of the animal, comprised of two layers: the grain (external part of the dermis) and the flesh split (internal part of the dermis). Using the tanning process, the dermis is transformed into leather.

DESCENDER

A descent / rescue device for lowering Vertically at a limited speed from a raised to a lower point. For use for one or more people.

DESIGNER

Person in charge of creating the shoe design integrating all the technical design elements.

DIELECTRIC (harnesses and absorbers)

Dielectric harness and absorber, non-conductive renderings. Insulated thanks to the plastic coating of all the metal buckles.

DIOPTER

Unit of power of optical systems used to determine the measurement of refraction, i.e. the ability of a medium or an object to deflect light rays. Unit of power equal to the inverse of the focal distance, expressed in metres. The focal distance is the distance between the lens or the refracting medium, and the point at which these rays converge (where they meet). The human visual system is 60 diopters (40 for the cornea and 20 for the cristallin).

DIPPED (GLOVE)

Glove manufacturing process by dipping the form of a ceramic hand in baths of various compositions depending on the material used. The next step is firing in ovens (vulcanisation).



GLOSSARY

DIRECTIVE (ATEX)

This European regulation, which aims to improve the health and safety of workers at risk from explosive environments, is the result of the application of 2 directives:

- Directive 1999/92/EC for the protection of workers potentially at risk from explosive environments.
- Directive EU 2014/34 for machines intended for use in explosive environments.

PPE are not governed by these two directives, they are even explicitly excluded from the Directive EU 2014/34 (Chapter I, Section 4 1,2,d). They may be used in ATEX regulated zones as part of an overall explosion risk prevention system. The EU 2016/425 regulation for PPE takes into account the risks of explosion in Annex II, paragraph 2.6.: "PPE for use in explosive environments.

PPE for use in explosive environments must be designed and manufactured in such a way that it cannot be the seat of an electric or electrostatic arc or result from an impact, capable of igniting an explosive mixture."

DMF

Dimethylformamide N or N-dimethylformamide is a common solvent used in organic chemistry. DMF may be a carcinogenic substance, although the EPA (Environmental Protection Agency) does not consider it a cancer risk. The new innovative manufacturing process, also called PU Water, is 100% based on water. No solvents, such as DMF, are used, strengthening innocuousness.

DOLOMIA

Dolomia is a sedimentary carbonate rock comprised of at least 50% dolomite. It is a double calcium and magnesium carbonate, which crystallizes into lozenge-shaped prisms (rhombohedrons). Dolomia is a sedimentary rock comprised mainly of the mineral dolomite (between 90 and 100%) and calcite, which do not have the same density (dolomite: 2.87; calcite: 2.71), playing a fundamental role in rock erosion.

The Dolomia test, conducted using Dolomia dust, is an optional test for filtering face pieces (EN149:2001 A1:2009) guaranteeing longer lasting performances of resistance to penetration.

DRILEX®

Drilex® is a technical lining found in top of the range sports shoes. This lining is comprised of 2 fibres and enables absorption of perspiration and evacuation of humidity to the outside (antibacterial and anti-odour).

DUAL GRIP

Name of an outsole offering a grip system suited to smooth or friable surfaces, with a large contact tread pattern, and central channels to evacuate liquids.

DUAL-DENSITY (SOLE)

Dual-density means the sole is made of 2 superimposed parts; the underpart in contact with the ground is more rigid whereas the upper part is more flexible and shock absorbent.

DUNGAREE

Dungaree are work garments comprised of trousers and a bib on the chest with shoulder straps. More commonly known as dungarees.

DUSTS

Solid particles suspended in the air.

F

EAR DEFENDER

Element of ear defenders (with the headband and the foam) which provides the sound attenuating effect.

EARPLUGS

Disposable or reusable ear defenders (EN352-2): inserted in the ear canal to plug the conduit. Usually made of polyurethane or PVC, they can also come with a cord, a headband and a detectable metal insert (for use in the food processing industry).

ECO-DESIGNED

Delta Plus develops eco-designed products whose environmental impacts are reduced to a minimum. Thus, throughout the lifespan of the product, the use of energy is minimized, the use of raw materials such as organic cotton and reduced packaging are given priority.

EDGED (SEAM)

Seam consisting of covering another seam with a band of fabric compatible with that of the garment to provide better sealing.

ELASTANE

Extensible fibre made of synthetic elastomer yarns. Elastane is always mixed with other fibres to give the fabric its properties: suppleness, elasticity and crease-proofing.

ELECTRIC ARC

An electric arc is a visible electric current in a nonconductive media (gas, air vacuum.)

The arc is created when the non-conductive material ionizes, which occurs more easily when conducting surfaces are nearby. The position of an electric arc is stable: once it has found the shortest path, it remains there (minimum energy principle). The whole difficulty for arc welding is therefore to master the arc using a continuous movement so that it keeps the desired form despite the fact that the emitting surface (or more rarely the receiving surface) is sometimes an acute angle.

Electrical arc welding produces a huge quantity of localized heat generating the fusion of materials, making strong joins that remain after cooling.

ELECTRIC FLASHOVER

Electric flashovers are electrical burns without the current passing through the body. In low voltage, following an electric arc, the skin injuries are superficial and mainly affect the hands and face.

Protection is provided by the polycarbonate of a thickness >1.4mm. The best protection is provided by a face shield.

ENERGY ABSORBER

Fall arrester composed of a lanyard with an energy dissipating device, which quarantees to stop a fall from height safely under normal conditions of use.

ENERGY DISSIPATOR

Component of a fall arrester designed to dissipate the kinetic energy accumulated during the fall.



ERGONOMICS

Studies and research into the methodical organisation of work and the arrangement of protective equipment according to the anatomical possibilities of people.

ESD

ELECTROSTATIC DISCHARGE, electrostatic discharge.

Any contact and any physical separation of solid materials may generate electrostatic charge. A person, or a garment worn by the person, may be electrically charged. Where appropriate, the ESD can cause damage, if the charged person or object comes into contact with an ESD sensitive device (microchips, semiconductors, printed circuit boards...).

EN 61340-5-1 (Protection of electronic devices against electrostatic phenomena) defines the general requirements of the areas protected against ESD, EPA (ESD Protected Areas).

To be admitted into an EPA area, depending on the configuration of the workstation, clothing and footwear must be subjected to specific electrical charge dissipation tests determined by European and American standards. Based on the results of these tests, the product will have the special ESD marking. Other PPE (gloves, head protection and fall arrest system) are not mentioned in this standard.

1

FABRIC

Any material obtained by interlacing of the warp and weft yarns, and made on a loom or weaving machine. Fabric with a plain weave structure is usually called plain weave.

FALL ARREST HARNESS

Body harness system designed to stop falls, a harness is one element in a fall arrest system. It should be designed to hold the individual during and after the fall with an angle of 50° from the vertical.

FALL ARREST SYSTEM

Protective equipment against falls from height or fall-arrest systems are comprised of 3 elements:

- a body holding system designed to stop falls (fall arrest harness).
- a linking sub-system designed to stop a fall from height (self-retracting fall-arrester, sliding fall-arrester or energy absorbing lanyard).
- a safe anchorage point.

FALL INDICATOR

Mechanical and visual device that allow to identify if a fall arrester suffered a drop impact.

FILTERING MEDIA

Type of respiratory protection device used either in positive pressure (assisted ventilation) or in negative pressure (free ventilation).

FINISH

Finishes are treatments used on some fabrics or yarns, to give them special properties, such as flame proofing, antistatic, water repellent, etc.

FLAME PROOFING

Treatment of textile materials with non flammable substances to reduce the risks of fire or slow flame spread.

FLANNEL

Lightly brushed fabric, soft and fluffy to the touch, originally made of wool.

FLAP

See valve.

FLASH

Surface treatment of a lens giving it a mirrorer aspect. The mirror effect on lens reflects the intensity of the light and heat to reduce eye strain during exposure to bright light, and to limit headaches resulting from this exposure. This treatment is not acompatible with anti-fog treatment. The colour of the treatment can be gold or other.

FLEECE

Thick, soft fabric, brushed on both sides.

FLOCK (GLOVE)

Cotton fibers deposited as a finishing process. Flocking provides a pleasant and soft contact and reduces perspiration.

FLUCTUATING

Noise whose fluctuations are greater than 5dB during the period of measurement.

FOAM

Element of ear defenders (with the headband and the ear cups) which attenuates the noise and provides comfort. It's inside the ear cups.

FOOD (SOLE)

White or light-coloured sole to prevent marks on the floor; anti-slip sole as it is used on very slippery surfaces.

FREQUENCY

Frequency is expressed in hertz. Only sounds with frequencies of between 20 and 20 000 Hz are audible.

At a frequency of between 20 and 200 Hz, the audible sound is lowpitched. Below that, they are infrasounds.

At a frequency of between 2000 and 20 000 Hz, the audible sound is highpitched. Above that, they are ultasounds.

FIIMF:

Small particles suspended in the air (aerosols).



G

GAUGE

This is the width of the stitch. It corresponds to the number of needles used in 1 English inch (2.54 cm). Example: gauge 7 corresponds to 7 needles in 1 inch. The higher the gauge, the finer the stitch. Gauges are 7, 10, 13, 14.

GLASS FIBRE

Glass fibre is a very fine filament of glass. By extension, composite materials strengthened with this fibre (usually associated with polymers) are also called glass fibre.

Monolithic glass is a very fragile material but when spun to a diameter less than one tenth of a millimetre, it loses its fragility and becomes a highly mechanically resistant material.

GRAIN LEATHER

External part of the dermis, with no mechanical modifications. This is the most supple and resistant part of leather.

GUSSET

It is the part of the shoe on either side of the tongue. It protects and seals the closure.

ŀ

HACCP

Hazard Analysis Critical Control Point. This a method of quality control in the food industry, used to:

- identify and analyse the risks associated with various stages in the production process of a foodstuff.
- define the means required to control them.
- ensure that these means are implemented effectively and efficiently. It is a systematic and rational approach to controlling microbiological, physical and chemical hazards in food.

HARNESS

An element of the harness. The most of arm webbing are starshape with 4 or 6 arms. Webbing with 6 fixing points or more, ensure better distribution of the force exerted on the helmet. Webbing can be made of polyethylene, or textile for better absorption of perspiration.

HARNESS (SAFETY HELMET)

It can be made of textile material or polyethylene. Its role is to absorb the impact of a falling object. It is comprised of two elements: the headband and the webbing.

HEADBAND

Element of ear defenders (with the muffs and the foam), it maintains the pressure of the protection on the ears.

HEADGEAR

It is one of the elements of the harness of safety helmet. It is often made of low density polyethylene (LDPE). It is adjusted by a tightening system with rack (ratchet), or by a sliding system (tightening straps with notches).

HEAT SEALED (SEAM)

Seams covered on one side with a band of fabric compatible with that of the garment and hot-welded for increased protection and sealing.

HMI

High Medium Low: 3 levels of frequency measurement.

HYDROPHILIC

A hydrophilic fabric is comprised of water-absorbent materials (e.g. cotton, wool. etc.).

HYDROPHOBIC

A hydrophobic fabric is comprised of materials that do not absorb water. (e.g. polyamide, acrylic, polyester...).

IMPACT FORCE

This is the force subjected to the body at the moment of the fall, expressed in daN (decaNewton).

IMPERMEABLE

An impermeable fabric is used to make products which is completely water and air tight.

Water proofing is usually done by the application of a coating. The coating is a deposit of a plastic film (PVC, polyurethane or acrylic) on the surface of a textile. For example, rain suits with their polyurethane or PVC coatings, boots in PVC or dipped glove.

IMPULSE

Noise the sound level of which increases considerably almost instantaneously.

IMPUTRESCIBLE (LEATHER)

After the tanning process, the leather becomes imputrescible, meaning it cannot rot.

INFRARED

Infrared (IR) radiation is electromagnetic radiation of a wavelength longer than that of visible light, but shorter than that of microwaves. Infrared radiation has wavelengths between about 750 nm and 1 mm, spanning five orders of magnitude.

INFRASOUNDS

Sounds of a frequency to low to be heard by humans (< 20 Hz). The average human ear only hears sounds within a certain range of frequencies between about 30 Hz (below that the sounds are called infrasounds) and 15 kHz (above which the sounds are called ultrasounds). Some physiologists even extend the limits of this range from 20 Hz to 20 kHz.

INJECTION (SOLE)

Sole or zip manufacturing system, liquid material is injected into a mould, this material then solidifies and takes the form of the mould.

INJECTION POINT

Point through which the press injects polyethylene into the mould and which is cut on removal from the mould.



INNOCUOUSNESS

The innocuousness of a product guarantees the fact that it contains no materials which may cause allergies to sensitive people. Innocuousness is an integral part of the basic requirements of protective clothing in EN340 or gloves in EN420. Usually, the pH of materials, the chromium VI content of leathers, the nickel emission of metallic materials, azoic dyes and the solidity of the dyes are tested.

INSOLE

This is the sole inside the shoe, in contact with the sole of the foot.

INTERLOCK

Basic knitting weave, each side are the same.

Interlock has good dimensional stability which doesn't ladder too much. Widely used to make sports clothing.

INTERMITTENT

Noise whose fluctuations fall to the ambient level several times.

ΙP

The IP protection rating is a standard defined by the CE 60529 standard. This index classifies the degree of protection against intrusions of Solid bodies (dust for example) and liquids (water, oil, etc.). The first figure corresponds to the effective protection against solid bodies. The Second digit corresponds to the effective protection against Liquid bodies. The IP66 rating therefore corresponds to being totally Dustproof and splash-resistant.

JACKET

A jacket is a garment with sleeves, closed in the front, covering the torso to the waist or hips.

JERSEY

Light and supple knits with a different right and reverse side. Widely used to make t-shirts and undergarments. The advantages of jersey are suppleness and comfort.

KEVLAR®

Para-aramide fibre manufactured by DuPont de Nemours. It combines lightness and resistance. For equal weight, Kevlar® is five times tougher than steel. Its properties: very resistant to cutting, carbonises between 425°C and 475°C; does not melt; self-extinguishing; dimensional stability; chemical stability; alteration of colour under UV.LL

KINETIC ENERGY

Energy that a body has as a result of its motion.

KNIT

All fabrics made of stitches or interlaced loops, made using needles or hooks. Knits are extensible. The basic fabrics are: rib, interlock, jersey.

KNITTED CUFF

Flexible, elastic knitted band finishing a collar, sleeves, legs, bottom of some garments.

Used to tighten wrists, collars, etc.

- Integrated cuff (knitted at the same time as the main piece).
- Pieced-cuff (knitted separately and stitched).

LAMINATED (FABRIC)

A laminated fabric is a complex of several layers of woven, knit or non-wovens assembled to enhance their performances.

2-layer laminate is used to describe a fabric laminated on 2 layers with a waterproof fibre usually on the outer layer. The inner layer is usually thicker and softer for greater comfort against the skin.

3-layer laminate is a fabric laminated in 3 layers, usually with waterproofing on the outer layer, comfortable fabric on the inner layer and sandwiched between the two, a waterproof- breathable membrane.

LANYARD

Generic term, a lanyard can be made of synthetic fibre rope, metal cable, webbing or a chain. A lanyard may not exceed 2 m in length.

LAST

The last is the basis for any study of the shoe which determines the general look, the volume and fit. It is made of wood for the study and then in plastic for production. The length of the foot, perimeter at the joint, foot width, and instep height are used to determine the size of a shoe and make the basic last.

LIFELINE

This is an anchor line to which a fall arrest system is connected to safeguard the horizontal movements of a person working at height. The anchor line can be a rope, a strap, a cable or a rail.

LINING

This is the part in contact with the foot. Often made of leather or textile, it improves the solidity of the shoe and acts like a second skin for comfort.

LOOSE SOIL

Irregular, uneven surface.

MANUAL ADJUSTMENT

Tightening system for safety helmets, using a sliding plastic strap. This system differs from the rack and ratchet system.

MECHANICAL REVISION

Class III mechanical fall protection PPE must be inspected at least once a year to ensure the proper functioning of the PPE. This inspection is also mandatory after a possible fall stop.





MEMBRANE

This is a thin polymer film (PU or polyester) applied to the inner surface of a fabric to enhance waterproofing and breathability.

MFSF

An alveolar fibre, used to enable air circulation and evacuate perspiration.

MICROFIBRE

Light, very fine and soft synthetic textile fibre with soft touch, skin of peach aspect.

MIDSOLE

The midsole is also called the comfort sole, whereas the outsole is in contact with the ground; together they make up the two parts of a shoe sole.

MIG/MAG (WELDING)

MIG (Metal-arc Inert Gas) or MAG (Metal-arc Active Gas) welding (the only difference between the two is the gas used to protect the welding bath), both indicated in AWS terminology as GMAW (Gas Metal Arc Welding), is a semi-automatic welding process.

The metals are melted by the heat energy released by an electric arc which erupts in a protected atmosphere between a fuse electrode wire and the parts to be assembled.

MIRRORED

See flash

MOULDED

Moulding is a technique which consists of shaping an object using a mould which is hollow to hug the form of the desired object.

The moulded material must be able to change from the liquid to the solid state or be thick but sufficiently consistent to be able to be removed from the mould without deforming.

A wide range of materials can be moulded:

- · metals
- plastics. The manufacturing process for frames is injection moulding.

A part production technique for large or very large production runs, this moulding can be in disk or in form.

N

NANOMETRES

Unit of measurement (1 millionth of a mm) used to calculate the wavelength of light. Maxwell in 1865 succeeded in demonstrating that light is an electromagentic wave whose field is measured in nanometres, with a visible and invisible spectrum. The wavelength determines the colour of the light. The human eye is only sensitive to wavelengths between 400 and 700 nm.

NATURAL LATEX

This is a natural polyisoprene from the Hevea braziliensis. It is part of the elastomer family, and is therefore elastic, supple and robust. It also has the properties of being impermeable to water, and resistant to detergents and some alcohols.

NBR (NITRILE)

This is a type of Nitrile: Nitrile Butadiene Rubber (NBR).

NFC

Near Field Communication is a recent technology that allows the user to establish communication between 2 compatible devices at short distance using a shortwave technique. The NFC is Available in most smartphones.

NITRILE

It is a synthetic latex. Its vulcanisation gives it properties similar to natural latex and many advantages (resistance to abrasion; excellent performance in oily and greasy environments; good resistance to chemical products).

NON WOVEN

Non-wovens are used to make numerous products: single-use garments, quilt padding, sleeping bags, cleaning cloths, baby's nappies, floor and wall coverings, reinforcements, garment padding, etc...

The three production processes for the lap of non-wovens are:

- dry spinning the fibres are used directly off the cards to make mattresses
 of fibres.
- by wet spinning a process similar to paper manufacture is used.
- by melt spinning the synthetic filaments are extruded in a current of hot air then lapped.

NON-INVERTING DEVICE

Element added to a sliding fall arrester to prevent installing it upside don on the anchor line.

NOSE CLIP

A flexible piece located at the top of single-use half-masks (on the nose), to adjust the face piece to the user's morphology.

NOTIFIED BODY

A Notified Body in the framework of the EU 2016/425 Regulation is a conformity assessment body, body that performs conformity assessment activities including calibration, testing, cerfication (Module B) ans inspection (Module C2 and D)

A notified body is inspected by the competent authorities of the Member States.

NPF

Nominal Protective Factor.

Formula used to define the level of protection provided by wearing a respiratory protective mask, and in standard test conditions: NPF = 100 / TIL (%).

The maximum exposure concentration corresponds to: NPF x MEV.

NUBUCK (LEATHER)

Grain leather the surface of which has been buffed, giving it a fine velvety and silky aspect.

NYLON

Registered trade name of DuPont de Nemours. It is a polyamide.



N

OIL-WATER REPELLENT

Leather treatment using mineral or synthetic oils or fluorinated resins, to make it resistant to water and/or oil penetration. This treatment gives the leather better mechanical performance for abrasion and increases the comfort (flexibility) of the glove, hence increased dexterity and lifespan.

OPTICAL BASE

This is the radius of curvature of the lens. The most curved optical base is 9; the least curved is 4: the most common is 6.

OPTICAL CLASS

Parameter which measures the optical quality of the lens. There are 3 classes of optical quality. The 1st corresponds to the best quality and is recommended for permanent wearing of glasses. The 2nd class is used for intermittent wearing and the 3rd only for very brief wearing.

OUTSOLE

The sole, also called the outsole, is the part of the shoe in contact with the ground. As a result, it must be as tough as possible. With the midsole, it comprises the two parts of the sole of a shoe.

OUTSOLE

The sole is the under part of the shoe. It is in contact with the ground. Several soles can be used to make up protective footwear. The materials used to make them, their sculpture and the manufacturing process will ensure the ergonomic performance required, i.e.: Grip, Anti-slip, Safety & Wearer comfort.

OVERALL

Single-piece garment covering the whole body.

OVERCAST (SEAM)

Seams made using overcast stitch consisting of interlacing three threads around two edges of the fabric to be assembled.

OVERGLASSES

Protective glasses designed to be worn over spectacles.

OXFORD

Thick-yarned plain weave with a lustred finish similar to the Oxford weave of cotton shirts.

p

PANOFLEX®

Flexion zones integrated into the sole to enhance flexibility.

PANOSHOCK®

Delta Plus innovation: piece of expanded rubber which absorbs and reduces shock waves to the spinal column.

PARKA

A parka is by definition shorter than a coat, longer than a jacket or a blouson, and is impermeable.

PATTERN CUTTER

Person who makes the templates or patterns for garments: uppers for shoes, patterns for clothing, before cutting and assembly.

PERMEATION

Although the glove shows no porosity or imperfection, the chemical product may gradually pass through the glove, and come into contact with the skin. The standard EN374 assesses this performance: the time (in minutes) taken by the chemical substance to integrate and pass through the protective material is measured (1 mg/m²).

PHYLON®

PHYLON® is a synthetic materials, supple, ultra light, shock absorbent, used in running shoes by all the major sports brands; It is an EVA insert (Ethylene Vinyl Acetate) moulded, expanded.

PIGMENTED (SPLIT LEATHER)

Split leather coated with a layer of pigment. This is an economical, quality and resistant shoe leather.

PIOUE EFFECT (STITCH)

Knitted fabric with a raised waffle texture.

PLATING

Knitting process consisting of obtained two different fabric sides, each with a different type of yarn. Also used to combine two advantages: comfort and resistance for example.

POLAR FLEECE

Stitch brushed on one or both sides to obtain an aspect as soft as velvet. Polar fleece provides unrivalled comfort thanks to its lightness, its softness, its breathability and its extensibility. As this stitch is not wind breaking, polar fleece complexes with microporous membranes have been developed.

POLO

Polos are originally sports shirts with a turned-down collar, more specifically of Jersey.

POLYAMIDE

Synthetic fibre resistant to traction and abrasion. This is an elastic fibre that recovers its original shape after deformation. It dries rapidly as it absorbs little water. It is insect-resistant (especially against mites).



POLYCARBONATE (PC)

Polycarbonate is a polymer (plastic) which has excellent mechanical properties and thermal resistance enabling it to be used at temperatures of up to 120°C. It has optimal shock resistance, hence its use in many sectors. It filters 99.9% of UV between 0 and 380 nm, UV 400 treatment extends this protection to 400 nm and absorbs part of the blue light in the light spectrum. Its sensitivity to chemical agents and to ultraviolet rays limits its use, however.

POLYESTER

Synthetic fibre with several advantages similar to those of polyamides: resistance to traction and friction; good elasticity; uncreasable; solidity of dyes; easy care; high resistance to abrasion, resistance to acids, bases and solvents, and to heat. It can be mixed with wool and cotton, which makes up for its inability to absorb transpiration, its rough texture and its tendency to pilling.

POLYETHYLENE

Polymer obtained by polymerisation of ethylene molecules. This is a material, with good chemical resistance, high stability, and easily recycled.

Polyethylenes (PE) are classified according to their density:

- LDPE (low density) is a supple plastic, used for helmet harnesses for example.
- HDPE (high density) is a hard plastic, used for the shell of helmets for example.

HSPE (high strength) provides good mechanical performances in particular against cutting, such as the fibre TAEKI for example.

POLYMER

A polymer is the name of a chain of molecules used to make synthetic filaments before being melted and transformed into yarns. The polymerization operation is a process to manufacture a polymer by connecting small molecules (monomer) into a molecular chain of multiple molecular weight (mass).

POLYMERIZATION

Chemical process by which resins or plastics are fixed to textile materials by means of heat to obtain canvas with coating.

POLYPROPYLENE (PP)

Belongs to polyolefin fibres, structurally very similar to polyethylene. Polypropylene can be used as a plastic (helmets) or as a fibre (woven or non

This material is easily recyclable, resistant to friction (abrasion) and to traction. It is grease-resistant. Its melting point is higher than 160°.

POLYTEXTURE

Material effect by association of weaving. Example: Ripstop with a box-effect.

POLYURETHANE (PU)

Polyurethane is a polymer transformed into synthetic resin or foam used in coatings, in some membranes and in the manufacture of elastane varns (Lycra®). Polyurethane is frequently used for coating, making fabrics waterproof. Garments made with such coatings are often breathable and very good alternative solutions to much more expensive products made using waterproof breathable membranes. It has very good mechanical resistance (wear, abrasion, tearing and micro-cuts).

PONGEE

Fabric with a silky, shiny finish.

POPLIN

Tightly woven cotton plain weave used primarily for shirts.

POWDERED (GLOVE)

Finishing process using a powder deposit (usually corn starch). The result is pleasant to the touch and soft which limits transpiration. For disposable gloves, the powdering facilitates donning and removal.

PPE

Personal Protective Equipment.

According to the EU 2016/425 Regulation, any equipment designed and manufactured to be worn or held by a person for protection against one or more risks to that person's health or safety, and any interchangeable components which are essential for the protective function of this equipement.

PRE-FILTER

Thin filter for protection against dust (P2 or P3), to be used on full and half-masks, associated with anti-gas filters (A/B/E/K) in order to obtain a combined gas and dust filter.

PU WATER (MANUFACTURING)

Innovative manufacturing process for PU coated gloves, 100% waterbased, i.e. no solvents, such as DMF, are used to ensure the bonding of the polyurethane (PU) and the support. As well as limiting the environmental impact of manufacturing, this technology minimizes the quantity of coating that penetrates inside the glove, making the support softer and more comfortable, as it limits transpiration and the accumulation of heat.

PUPILLARY (REFLEX)

The eye's adaptation to light intensity: the pupil dilates or retracts.

PVC

Polyvinyl chloride is a polymer usually known by its abbreviation PVC. PVC resists many solvents, acids and chemical products (in particular hydrocarbons). Fabrics coated with PVC are real barriers against bad weather. However, they should be worn for a limited time depending on the temperature in the working environment.

OUILTED

Insulating lining made by superimposing materials held together by decorative stitching (fleece + lining).



R

RAGLAN (SLEEVE)

Sleeve assembled on the bias, from the neck to the underarm. There are no shoulder or underarm seams, making for greater ease of movement.

RATCHET

Tightening system of the headband for safety helmet, for easier adjustment, using a ratchet.

REINFORCEMENT

Insert (often made of leather) stitched to the glove in the zones most exposed to the risks of abrasion and cutting (Palm reinforcement, Web reinforcement between the thumb and index finger) or lateral or in front of the shoes.

RESTRAINT (SYSTEM)

System designed to attach a person to an anchorage point so as to prevent any fall from height.

RETRO REFLECTIVE (BAND)

These are bands fixed to high-visibility garments. 3M Scotchlite™ uses 2 types of technologies, microprisms (better contrast, rigidity suited to some garments) and microbeads (resistant to washing, high flexibility), and offer several different types of bands (stitched or sealed). Retro reflective materials are used to reflect light by day and by night.

REVERSE GRAIN

Use of the inner part of the grain enabling considerable suppleness to be maintained, and significantly improving resistance to abrasion. Water-repellent treatment applied to reverse grain is ten times more effective than on the grain itself.

RIB

1x1 / 2x1 / 2x2 type knits (the first and the second figure respectively indicate the number of column in relief and column in hollow seen on the face place) used to make very elastic and reversible knits. Used mainly to make sweaters, cuffs and hose and undergarments.

RIPSTOP

This is a box-effect fabric weave (thicker yarn) that prevents tears from spreading while reducing the weight of the fabric.

ROLLING

Action of crushing leather on its whole surface with a roller to make it firmer and more flexible.

RUBBER

Synthetic elastomer made from oil and with elastic and resistance properties. The advantages of this material are to offer mechanical properties of good grip, good resistance to abrasion, contact heat and to oils and grease.

- 5

SATIN (WEAVE)

A fabric with a «satin» type weave is characterised by a shiny and smooth aspect. The yarn density gives it the advantage of not igniting as easily as «plain» weave. With special treatments, such as Proban®, flame retardants, it is a flame resistant material widely used for PPE.

SCIVING

Operation to thin the leather to prevent over-thickness during assembly.

SEAT STRAP

Strap used in the design of a harness with the dual role of seat and force distribution in the event of a fall, hence preventing too violent a force between the legs and any resulting consequences. The seat strap is not obligatory on a harness.

SELF-RELEASE (SYSTEM)

Chinstrap mechanism, ensure proper operation. According to standard EN397: the system should be triggered by a force > 150 N and < 250 N.

SELF-RETRACTABLE FALL ARRESTER

Device with automatic blocking system and an automatic lanyard tensioning system.

SHANK

Used to support the instep. Very often made of wood, then steel, it is also now made of composite material. Its role is to maintain the instep, or arch of the foot.

SHELL (SAFETY HELMET)

The shell is one of the components in a safety helmet (external part). Its role is to limit injuries by contact impacts (crushing and penetration).

It is made by injection from two types of materials:

- HPDE (high density polyethylene), an efficient material, the most economical and widely used.
- ABS (acrylontrile butadiene styrene), a more rigid material.

SILICONE (FREE GLOVE)

Silicones are polymers derived from sand. They are present more or less everywhere, in the form of mastics, glues, joints, anti-foam additives for washing powders, cosmetics, medical equipment, electrical cable insulation sheaths, high-performance grease, etc...

A certified silicone-free glove has a considerable advantage in industries requiring the total absence of silicone in their manufacturing or assembly process, for example in the automobile industry to quarantee paint without marks.



SIZE

Half pelt cut from head to tail along the line of the backbone.

Set of measurements of the shoe volume, usually determined by the length and width of the foot, measured around the joint of the toes (toe width). Additional measurement tables, such as the height of the instep, determine the various sizes.

There are three main measurement systems in use in the world:

- french sizes (from 17 to 48).
- english sizes (1 to 13 feet).
- american sizes (equivalent to the English sizes + 0.5).

SLIDING FALL ARRESTER

Fall arrester with an automatic blocking function and a guidance system. The fall arrester moves along an anchor line. It accompanies the user in his movements with no manual intervention needed by him. In the event of a fall, the fall arrester automatically blocks on the anchor line.

SNR

Single Number Rating: a simple and widely used method to mesure the attenuantion noise, even if not really precise (measurement of decibels without taking account of frequencies).

SOFTSHELL

Soft shell materials are hybrid materials. Between the polar fleece and the windbreaker, «softshells» combine several advantages: keep in body heat, evacuate humidity and act as a barrier to external aggressions, mainly wind and fine rain. It may be laminated to enhance performances (breathable, water repellant).

SOLVENT (FREE COATING)

A solvent is a liquid that has the property of dissolving and diluting other substances without changing them chemically and without changing itself. The new innovative manufacturing process, also called PU Water, is 100% based on water. No solvent, such as DMF, is used to ensure the bond between the polyurethane (PU) and the support.

SOUND

A sound is an acoustic vibration, a movement of particles in an elastic medium; the air.

Sound is characterised by its intensity (amplitude of variations in air pressure): high or low which is expressed in decibels (dB). Sound is also characterised by its height: high or low-pitched (number of oscillations per second) which is expressed in Hertz (Hz).

SPLICE

The process of weaving one end of a stranded rope or cable into the other in order to create a loop.

SPLIT

Internal part of the dermis, obtained by splitting or any other operation to remove the outer layer. The resistance to abrasion and heat are split advantages (after heat treatment).

STABIL

Noise whose fluctuations do not exceed 1dB during the measurement period.

STEEL

Use for the anti-puncture sole for its resistance to a force of 1100N and use for safety shoe toecap for its resistance to 100 or 200 joules.

STEL

Short terme exposure limit.

Concentration measured in mg/m3 or in ppm over a maximum time of 15 minutes that it is advisable not to exceed

STIFFENER

A semi-rigid part inserted between the upper and the lining, located at the back of the shoe to prevent flattening and hold the heel in place.

STRAPS (MAIN)

The main straps are elements which are used in the design of a fall arrest harness. They should support a person's body during and after the fall. Other straps in the design of a harness are called secondary straps.

STROEBEL (STITCH)

This stitch is just the overstitch known to seamstresses; a single thread is chain-stitched to assemble the insole to the upper...

STRUCTURE

In knitting, the method of interlacing stitches is called the structure. The three basic knit structures are jersey, interlock and rib.

STYLIST

Person in charge of creating the sketch for a product (shoe, garment, glasses...) integrating technical elements and design constraints.

SUEDE (LEATHER)

Split suede leather is made from the flesh and buffed to obtain the suede aspect, like Nubuck, but which is from the grain.

SUPPORTED (GLOVE)

The dipped form is covered (or not: non supported) with a jersey or interlock cotton knit glove. A supported glove has better mechanical protections and comfort than an unsupported glove.

SWEATBAND

Sheep or lambskin prepared by vegetable tanning, finished without dye and mainly used in linings.

SWIVELLING CONNECTOR

Element often added to a connector or a fall arrester enabling separate rotation of the two parts.

SYNTHETICS

Fibres of chemical origin: in this family are the polyesters, the polyamides, acrylics, para-aramides, polyethylenes, elasthanes, etc.



TAEKI® (FIBRE)

Synthetic fibre made of high-strength polyethylene (PEHT). It has exceptional mechanical properties, in particular against abrasion and cutting. 2nd generation TAEKI fibre is much softer than the 1st generation, thus providing greater comfort.

TANNING

Tanning transforms the raw hide into an unfinished tanned hide, making it rot-proof, receptive to finishing treatments and chemically stable.

There are different types of tanning:

- vegetable tanning (natural plant extract tannins).
- mineral tanning (usually with chromium salts).
- mixed tanning (vegetable tanning retanned with chromium).

TASION

Rough textured fabric. The very tight crossing of its fibres makes it a robust fabric

THERMOFUSING

Bonding operation using pressure and heat (high visibility strip on a garment, interlining in a collar...

THIMBLE

Element added inside an end loop to protect from wear generated by the friction.

THINSULATE™

Registered trade mark of 3M. It is a web of synthetic insulting non-woven combining heat, comfort and finesse. It is water repellent.

THT (HEAT-PROOF LEATHER)

Treatment used to make the leather more resistant to contact heat and reduce shrinkage on contact with a flame. The leather remains supple despite contact with a heat source.

TIL

Total Inward Leakage.

It corresponds to the performance of the filtering face piece, and is expressed in %. The lower the %, the greater the protection performance.

FFP1: 22%

FFP2: 8%

FFP3: 2%

TOECAP (SAFETY)

Steel, aluminium or composite shell to protect against the risk of impact and crushing of the toes. Performance is measured at 100 or 200 joules. These are the two main tests; there is also rust resistance (metal toecap), resistance to heat, to hydrocarbons, and to cold for composite toecaps.

TRIPOD

Temporary and carrying anchorage device to be used for vertical movements in confilmed space.

T-SHIRT

T-shirts are cotton garments covering the torso, without a collar, most often short-sleeved, the shape of which is reminiscent of a T.

TWA

Time Weighted Average.

Concentration measured in mg/m3 or in ppm, for an exposure time equal to the work day (workday of 8 hours), corresponding to the toxic risk.

TWIII

A fabric with a «twill» weave is characterised by ribbing (diagonal relief) on the rightside of the fabric, the underside is different. «Twill» weave is a weave that resists wear and traction

TYVEK®

The basic material in Tyvek® is polyethylene. Under the effects of pressure and heat (Flash spinning), a multitude of continuous filaments are obtained which are melt bonded to give a non-woven that is lightweight, flexible and resistant.



ULTRASOUNDS

Sounds of a frequency too high to be heard by humans (> 20 000Hz).

ULTRAVIOLET

Ultraviolet (UV) light is electromagnetic radiation with an intermediate wavelength between that of visible light and that of X-rays. Ultraviolet can be subdivided into near UV (380-200 nm wavelength) and extreme UV (200-10 nm). Sunburns are primarily due to UV-B. UV-A cause of sunburns during very long exposures. High intensity of UV-B (315-280 nm) are dangerous for eyes and can cause "welder's flash" or photokeratitis.

UNITS OF MEASUREMENT (YARNS)

The Tex, Decitex (Dtex), Denier (D) or Metric count (Nm) are units of measurement for yarns used to qualify their size also known as «Thread count».

UPPER

Top part of the shoe located above the sole, comprising the tongue, the collar and the quarters.



VALVE

Also called a flap, it provides additional comfort to the mask, by rapidly lowering its temperature at the moment of expiration and rejection of CO₂. It is on disposable masks (product code V), half masks or full face masks.

VAMP

Front part at the level of the instep and on the sides.



VENTILATION

Holes located at the top of the shell to enable better evacuation of heat and

Ventilated helmets therefore do not pass the electric test (440 VAC), except for ventilations located at the bottom of the shell, as the test is conducted by immersing the shell to half-height.

VERIFICATION

Visual inspection of Class III fall-based PPE with textile base.

VEST

A vest is a short garment without sleeve, which covers top of the body.

VINYL

Synthetic thermoplastic polymer. It is used for disposable gloves. It is impermeable to water, alcohol and detergents, but it is not elastic.

VISIBLE (LIGHT)

Visible lightvisible spectrum or optical spectrum is the part of the electromagnetic spectrum which is visible to the human eve. There is no definite limit to the visible spectrum: the human eye adapting to light usually has maximum sensitivity at light of wavelength about 550 nm, which corresponds to a yellow-green colour.

VULCANISATION

Vulcanisation is a process invented by Goodyear, which consists of heating the rubber at high temperature to obtain its transformation. This process is used for dipped gloves, placed in an oven after dipping in materials.

WADDED (LINING)

Lining associated with a thickness of fleece to enhance the heat performance of the garment.

WARP

It is the vertical yarns of knitted fabric in opposite to horizontal yarns.

WATER REPELLENT (FABRIC)

Finish deposited on the fabric to give it the property of not letting droplets of water penetrate the fibre, but allowing them to slide off. It can be said that the drops of water are repelled. The fabric is not waterproof.

WATER REPELLENT (LEATHER)

Leather treatment using mineral or synthetic oils or fluorinated resins, to make it resistant to water penetration. This treatment gives the leather better mechanical performance for abrasion and increases the comfort (flexibility) of the glove, hence increased dexterity and lifespan.

WATERPROOF (SEAMS)

Seam on which a waterproof plastic film is applied to prevent water penetration by capillarity (passage of water by absorption of yarns and/or stitching holes) into an assembly. Assembly seam covered using thermofusing of a band of material compatible with that of the garment to prevent infiltration of water and waterproof the garment.

WEAVE

Method of interlacing warp and weft yarns in woven materials. Each weave has its own aesthetic and mechanical properties. The main fabric weaves are plain, serge, satin. The three basic knit weaves are jersey, interlock, rib. In knitting, the method of interlacing stitches is called the structure.

WEFT

These are the horizontal yarns in woven fabrics, as opposed to vertical warp varns.

WELDING

Glasses or hood with various shades of filters suitable for welding work; disposable masks with charcoal filter, welding goggles and helmets with special tinted filter, to protect the eyes and face during welding.

WINCH

Lifting device for lifting things (eg equipment) or people, according to the tyope of product, in rescue procedure

WORK POSITIONING (SYSTEM)

A system used to maintain a user at the workstation in a given position.

WRIST CUFF

Knitted finish of the glove wrist, to hold the glove on the wrist and prevent any penetration of dust and waste inside the glove.

ZIP (REVERSE STITCH)

Zip whose stitch is placed on the reverse so that only the ribbon can be seen. It is used for an aesthetic effect and to prevent friction.

ZIP (WATERTIGHT)

Reverse stitch zip covered with a PU membrane to ensure watertightness. It is used on waterproof and technical products.



HEAD PROTECTION AIR COLTAN 43 KILIMANDJARO CLEAR 19 MEIA YELLOW 17 ASD2 CLEAR 7 KILIMANDJARO CLEAR AB 19 ΜΕΝΤΔΙ ΡΗΔ *L*1 ASO2 SMOKE KILIMANDJARO SMOKE MILO CLEAR 17 7 19 BALBI 2 31 KISKA2 CLEAR 14 MILO SMOKE 17 BARRIER 2 MURIA 1 KISKA2 SMOKE 21 23 14 BARRIER PLATE 2 23 LIPARI2 CLEAR 15 NECKALPHA 41 BASALPHA LIPARI2 T5 ONYX 34 41 15 PACAYA CLEAR 10 BASEBALL DIAMOND V 36 M1100 58 PACAYA CLEAR LYVIZ 9 M1100V BASEBALL DIAMOND V UP 58 36 BASGAMMA 33 M1100VB 59 PACAYA CLEAR STRAP 10 PACAYA CLEAR STRAP LYVIZ 8 BASWELD 23 M1104 56 PACAYA SMOKE 10 BLOW2 CLEAR M1200 58 5 PACAYA SMOKE LYVIZ 8 BLOW2 LIGHT MIRROR 5 M1200V 58 PACAYA T5 10 **BLOW2 MIRROR** 5 M1200VB 59 PICO 2 31 BRAVA2 CLEAR 18 M1200VBW 59 PITON 2 CLEAR 19 BRAVA2 LIGHT MIRROR 18 M1200VP 59 PITON CLEAR 19 BRAVA2 MIRROR 18 M1200VPLUS 57 PIT-RADIO 3 45 BRAVA2 SMOKE 18 M1200VPW 59 OUARTZ I 40 BRAVA2 YELLOW M1200VW 58 18 QUARTZ UP III 38 CASOUD 3 25 M1204 56 QUARTZ UP IV 38 CASOUD2HE 25 M1204V 56 RIMFIRE CLEAR 6 COLTAN M13NNV 43 57 RIMFIRE MIRROR 6 CONIC DISPLAY 51 M1300V2 58 RIMFIRE POLARIZED 6 CONICO10 51 M1300VB 59 RUIZ 1 21 CONIC200 51 M1300VP 59 **RUIZ 1 ACETATE** 21 CONIC500 51 M1304V 56 SATAMA 21 CONICAPO1 50 M1304VW 56 SCREEN 24 CONICAPO1BR 50 M2FP2V 58 SCREEN PLATE 24 CONICCO200 51 M2FP2VPLW 57 SEPANG 2 47 CONICCOPLUS200 50 M2FP2VW 58 SILVERSTONE 2 47 CONICDE010 51 M2FP3V 57 SPA 3 48 CONICFIR010 49 M3FP1 58 SPINER REFILL FEP2 54 CONICFIR050 M6000 A1 49 65 SPIDER REFILL FFP2W 54 CONICFIRDE010 49 M6000 P2 65 SPIDER REFILL FFP3 54 CONICFITO10 M6000 P2 CLIP 49 65 SPIDERMASK P2 X5 54 CONICMOVE01 50 M6000 P3 65 SPIDERMASK P2W X5 54 CONICMOVE01BR 50 M6000E A2 65 SPIDERMASK P3 X5 54 CONICPLUS200 MROODE AREKT 50 65 SUPER QUARTZ 39 CONICSOF010 49 M6000E PREP2 65 SUZUKA 2 48 DEAR BOX 51 M6000E PREP3 65 THUNDER CLEAR 11 DYNAMIC JUGALPHA 41 M6100 JUPITER 64 THUNDER SMOKE 11 DYNAMIC JUGBETA 34 M6200 JUPITER 64 **TOBA 3 T5** 25 EGON CLEAR 16 M6400 CHEM KIT 65 VISONYXPR 34 EGON LIGHT MIRROR 16 M6400 JUPITER ß۵ VISOR FLASH 28 EGON SMOKE M6400 MARS KIT 65 16 VISOR HOLDER 31 EGON YELLOW M6400 SPRAY KIT 16 65 VISOR T-GUARD 27 EZ-COM 45 M9000 P3 61 VISOR TORIC CLEAR 27 FILM GOGGLE M9000E A2 20 61 VISOR TORIC T5 27 M9000E A2B2 FILTER 11 25 61 VISORG 30 FILTER-IN 25 M9000E A2B2E2 61 VISORG MINI 30 FORESTIER 3 39 M9000E A2B2E2K2 61 VISOR-H 31 **FUEGO** 14 M9000E A2B2E2K2HGP3 61 VISOR-HOLD MINI 31 FUJI2 CLEAR M9000E A2B2E2K2P3 61 11 VISORPC 30 FII112 GRADIENT 11 M9000F A2R2F2P3 61 VISORPC MINI 30 **GALERAS CLEAR** 20 M9000E A2B2P3 61 VISOR-U 31 GALERAS SMOKE 20 M9000E A2P3 61 VULCANO2 CLEAR 15 M9000E AX **GO-SPECS TEC CLEAR** 7 61 VIII CAND2 PLUS CLEAR 15 33 GRANITE PEAK M9000E AXP3 61 **VULCANO2 SMOKE** 15 GRANITE WIND M9000E B2 33 61 WINTER CAP ΔN HARNESS O 34 M9000F R2P3 61 YAS MARINA 46 HARNESS V M9000F F2 61 36 ZIRCON 1 40 M9000E E2P3 HEKLA2 CLEAR 16 61 HELIUM BLUE BLOCKER 13 M9000E K2 61 HELIUM DETECTABLE M9000E K2P3 12 61 HESTICKER M9200 - ROTOR GALAXY 62 41 INTERHYKIT 46 M9300 - STRAP GALAXY 62 INTERLAGOS MAGNY HELMET 2 48 46 JUGALPHA 41 MAGNY-COURS 2 48

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MEIA CLEAR

MEIA SMOKE

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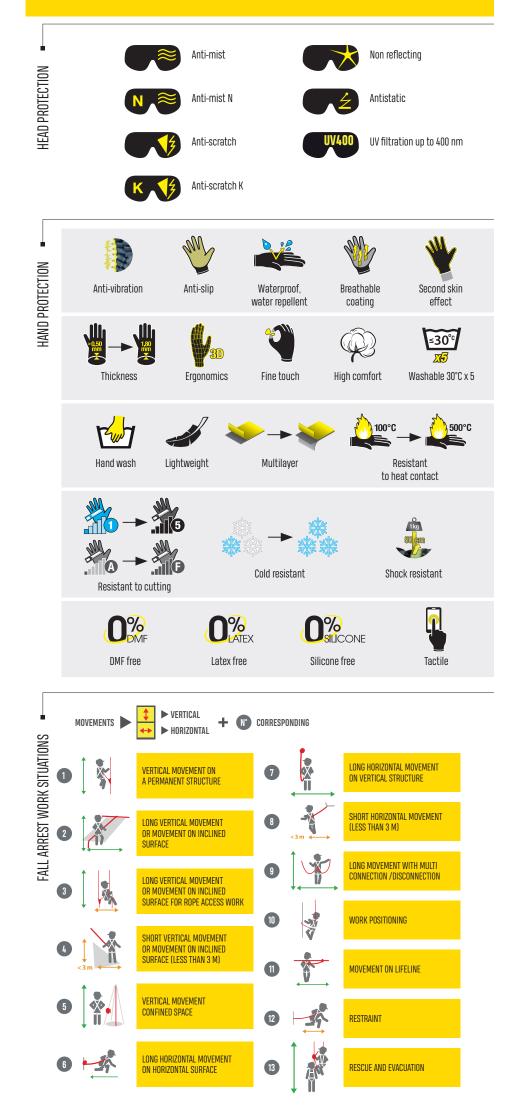
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