

Solutions for Vibration Control

Performance and durability never possible with rubber



Taica

<https://taica.co.jp/gel/en/>



Taica Taica Corporation / Multifunctional Materials Division

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αGEL damping solutions bring out the maximum potential of your products

6 Features

Feature.01
High Performance Damping

αGEL displays exceptional damping functionality (Loss Factor: $\tan\delta$). Its softness and pliability give αGEL this great vibration damping and vibration control performances.

Feature.02
Low Frequencies Low Loads

αGEL products offer solutions for both small, sensitive parts and large-scale heavy machinery. αGEL excels in protecting parts from low frequency vibrations and effectively reduces vibrations at a wide range of frequencies.

Feature.03
Ultra Soft Silicone Material

αGEL is a silicone-based material that combines softness and durability with a very low compression set. It can be used at a wide range of temperatures (-40°C ~ +200°C), resulting in unrivaled long-term reliability.

Feature.04
Outstanding Durability

Compared to rubber or foam materials, αGEL shows superb durability against weathering, ozone, UV and various chemicals.

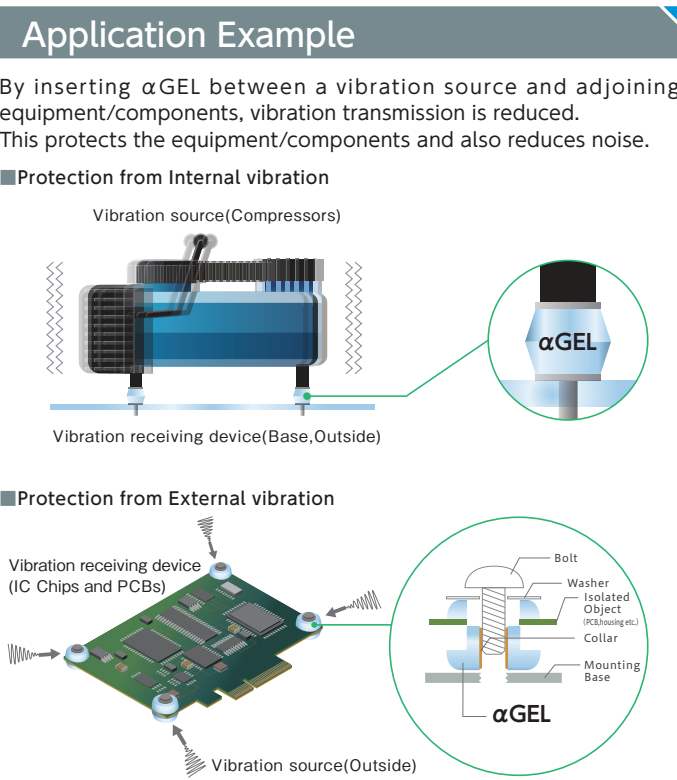
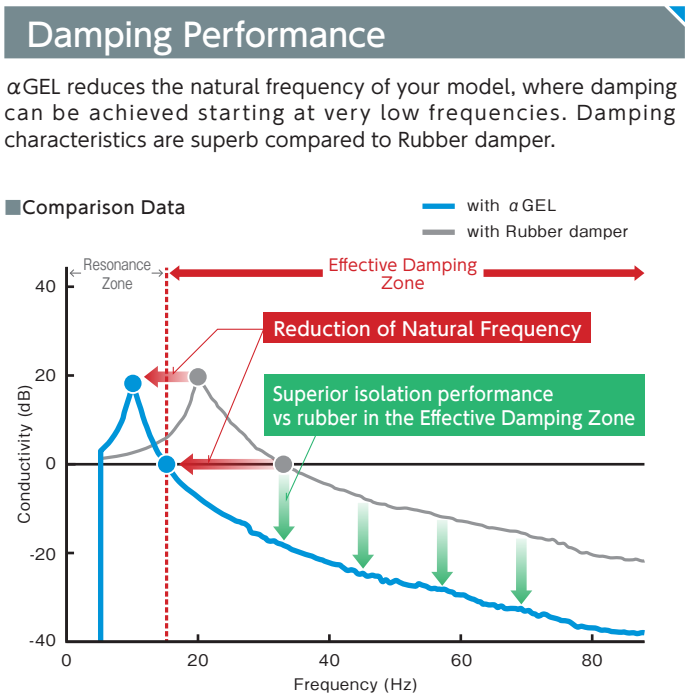
Feature.05
Vibration Control Design Know-how

We employ over 30 years of experience in the field of vibration control to offer you solutions with a customized size, hardness, and damping profile.

Feature.06
Damping Simulation

Utilizing the Nonlinear Finite Element Analysis (FEA), we analyze and predict vibration.





Product Categories

Product Type	Characteristics	Metal Fittings				Optimum Load(kg/4 points)				
		Male threads	Female threads	Plate type	Hole size	0kg	1kg	10kg	100kg	1000kg
θ type (THETA)	Conical frustum shape. Copes with various loads by changing size and hardness	✓	✓	✓	M4-M6		[0.3~30kg]		[50~100kg]	
MN type	Combination of conical frustums. Copes with various loads by changing size and hardness	✓	✓	—	M6		[2~60kg]			
BG type	αGEL - Spring Combo. Strength against vertical vibration.	✓	✓	—	M3-M6		[3.2~16kg]			
SF type	Unitized with a bottom plate	✓	✓	✓	M-6 4.2×6mm (Oval hole)		[2~50kg]			
SF Type (Rubber-coated)	Rubber encapsulated. Fit for outdoor usage.	✓	✓	✓	M10 φ11.5mm				[100~300kg]	
Bushing Type	Usage with thru-bolts minimizing horizontal vibration.				φ3-φ4mm		[0.2~32kg]			
SN Sheet type	Usage just by laying beneath your product. Very easy setup.						[0.5~50kg]			

Installation

Always use in compression.

Correct Use

- Even load
- Compressively suspended in tensile direction

Incorrect Use

- Uneven load
- Misaligned bolt hole
- Twist
- Tensile direction
- Shearing direction

※The height of the insulator may vary as the gel is compressed under load.
※The direction of the slot on the head of stud is not controlled.
※Do not remove the burrs of the gel around the edge of metal. This could cause detachment of gel from metal.

[Notes]

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- The powder is applied on the surface of the GEL to reduce the tackiness temporarily and does not guarantee its effect.
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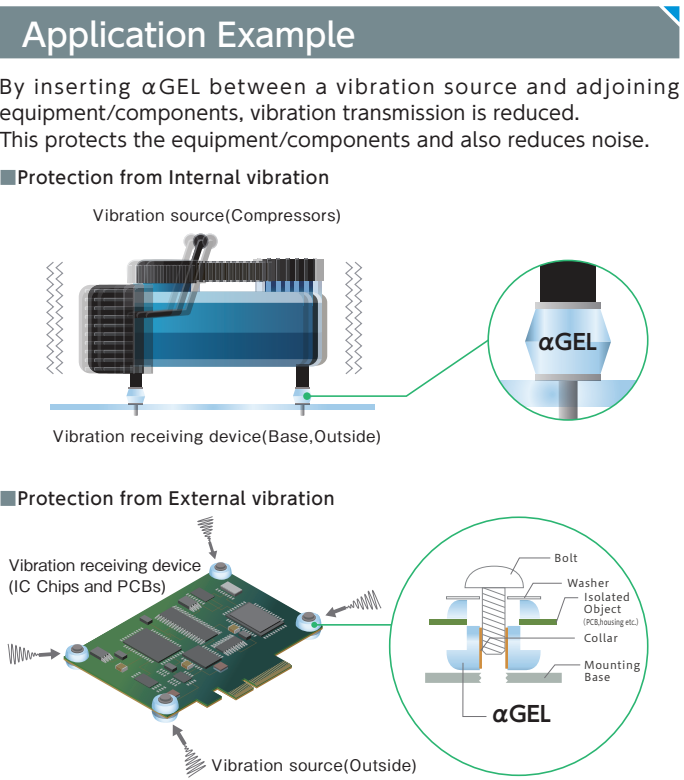
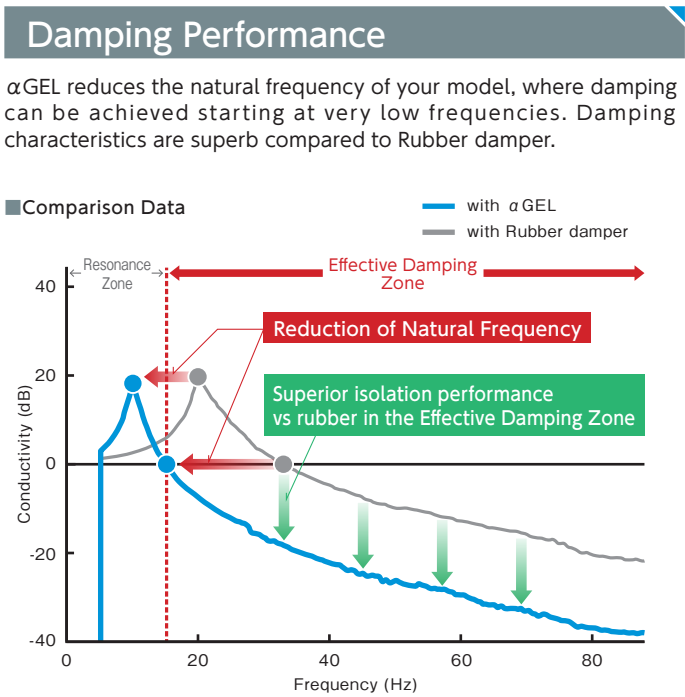
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[Notes]

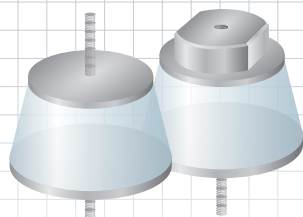
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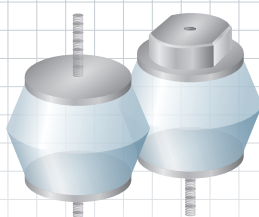


Insulators

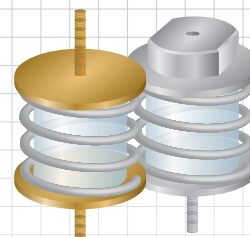
Insulators



[θ (THETA) type]



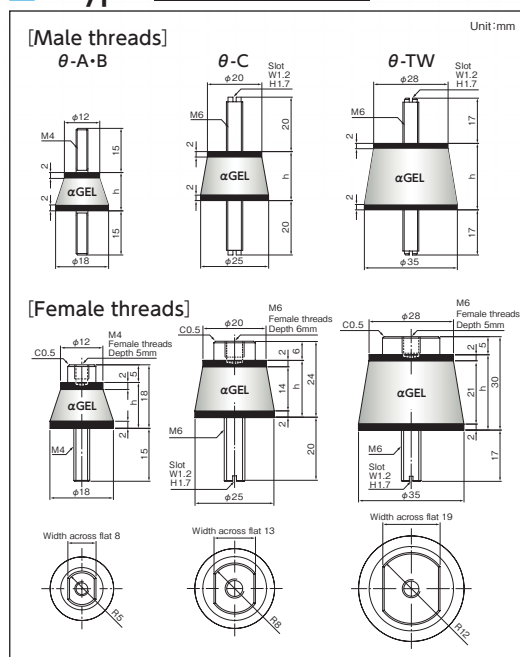
[MN type]



[BG type]

Product Details

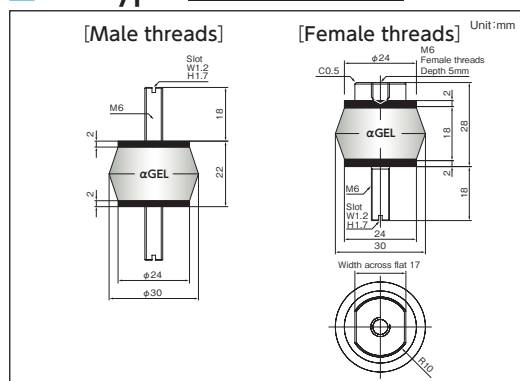
θ type Male / Female threads



Part No.	Optimum Load (kg/4 points)	Resonance Point(Hz)	Resonance Magnification(dB)	Recommended Frequency range(Hz)	h (mm)
θ-A	2 ~ 3.2	16 ~ 15	12	23 ~	13
θ-A-7	0.3 ~ 0.9	21 ~ 16	6 ~ 8	25 ~	13
θ-A-5	1 ~ 5	26 ~ 16	9 ~ 11	25 ~	13
θ-A-6	5 ~ 15	20 ~ 12	16 ~ 19	20 ~	13
θ-A-8	10 ~ 30	18 ~ 11	20 ~ 24	18 ~	13
θ-B	1.6 ~ 2.4	13 ~ 11	13 ~ 12	18 ~	18
θ-C	3.2 ~ 8	14 ~ 12	13 ~ 12	20 ~	18
θ-TW	50 ~ 100	10 ~ 8	20 ~ 19	14 ~	25

[Male] Upper / Bottom bolt material : Iron with trivalent chromate plating or SUS304
 [Female] Upper / Bottom bolt material : SUS304

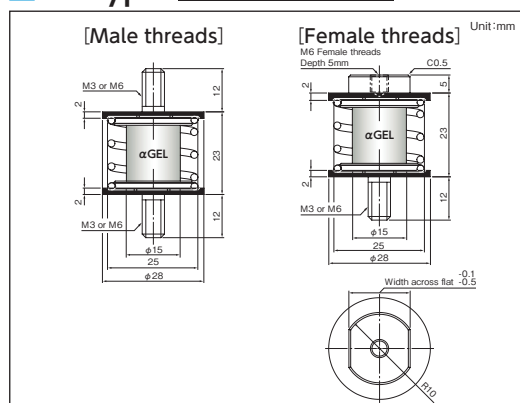
MN type Male / Female threads



Part No.	Optimum Load (kg/4 points)	Resonance Point(Hz)	Resonance Magnification(dB)	Recommended Frequency range(Hz)
MN-1	2 ~ 7	18 ~ 11	12 ~ 13	17 ~
MN-2	3 ~ 9	17 ~ 11	9 ~ 10	17 ~
MN-3	8 ~ 14	12 ~ 10	12	17 ~
MN-5	14 ~ 22	11 ~ 10	14 ~ 13	16 ~
MN-7	22 ~ 34	11 ~ 10	16 ~ 15	16 ~
MN-10	34 ~ 50	11 ~ 10	20 ~ 18	16 ~
MN-25	40 ~ 60	10 ~ 8	21 ~ 23	14 ~

[Male] Upper / Bottom bolt material : Iron with trivalent chromate plating or SUS304
 [Female] Upper / Bottom bolt material : SUS304

BG type Male / Female threads



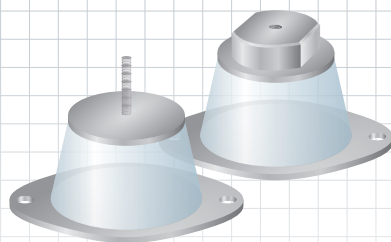
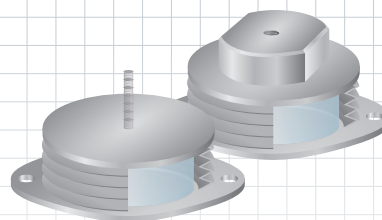
Part No.	Optimum Load (kg/4 points)	Resonance Point(Hz)	Resonance Magnification(dB)	Recommended Frequency range(Hz)	Bolt Diameter
BG-7	3.2 ~ 6.4	10 ~ 8	16 ~ 14	14 ~	M-3
BG-8	6 ~ 16	10 ~ 8	18 ~ 16	14 ~	M-6

[Male] Upper / Bottom bolt material : Iron with trivalent chromate plating or SUS304
 Spring material : SWPA with trivalent chromate plating
 [Female] Upper / Bottom bolt material : SUS304
 Spring material : SWPA with trivalent chromate plating



Insulators [Bottom plate type]

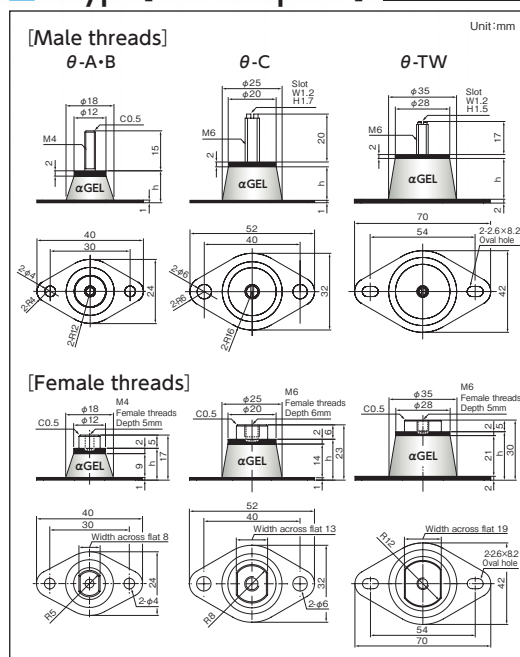
Insulators

[θ (THETA) type/SF type]

[SF type (Rubber-coated)]

Product Details

θ type [Bottom plate] Male / Female threads

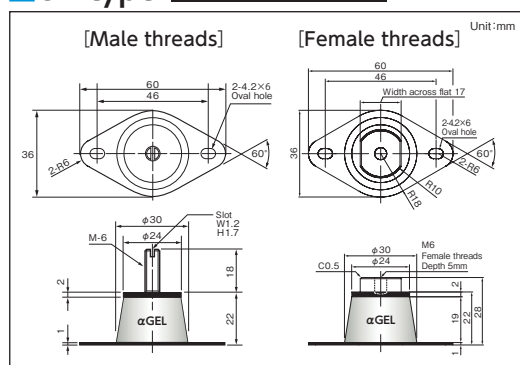


Part No.	Optimum Load (kg/4 points)	Resonance Point(Hz)	Resonance Magnification(dB)	Recommended Frequency range(Hz)	h (mm)
θ -A	2 ~ 3.2	16 ~ 15	12	23 ~	12
θ -B	1.6 ~ 2.4	13 ~ 11	13 ~ 12	18 ~	17
θ -C	3.2 ~ 8	14 ~ 12	13 ~ 12	20 ~	17
θ -TW	50 ~ 100	10 ~ 8	20 ~ 19	14 ~	25

[Male] Upper bolt material : Iron with trivalent chromate plating or SUS304
Bottom plate material : SUS304

[Female] Upper bolt material : SUS304 Bottom plate material : SUS304

SF type Male / Female threads

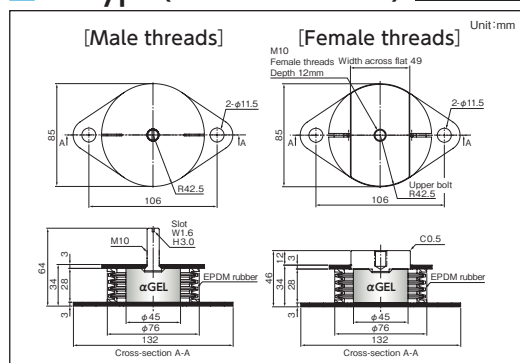


Part No.	Optimum Load (kg/4 points)	Resonance Point(Hz)	Resonance Magnification(dB)	Recommended Frequency range(Hz)
SF-0	2 ~ 9	19 ~ 10	12 ~ 13	16 ~
SF-1	3 ~ 11	17 ~ 10	9 ~ 10	16 ~
SF-2	5 ~ 13	15 ~ 10	12 ~ 13	22 ~
SF-5	13 ~ 30	13 ~ 9	15 ~ 16	19 ~
SF-10	30 ~ 50	12 ~ 9	19 ~ 21	17 ~

[Male] Upper bolt material : Iron with trivalent chromate plating or SUS304
Bottom plate material : SUS304

[Female] Upper bolt material : SUS304 Bottom plate material : SUS304

SF type (Rubber-coated) Male / Female threads



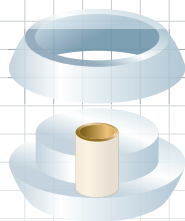
Part No.	Optimum Load (kg/4 points)	Resonance Point(Hz)	Resonance Magnification(dB)	Recommended Frequency range(Hz)
SF-30	100 ~ 140	9 ~ 8	18 ~ 19	13 ~
SF-50	120 ~ 300	15 ~ 10	12 ~ 18	15 ~

[Male] Upper bolt / Bottom plate material : Iron with trivalent chromate plating or SUS304

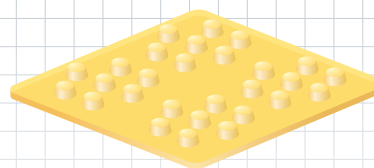
[Female] Upper bolt / Bottom plate material : SUS304

Gel Bush/SN Sheet

Gel Bushings/SN Sheets



[Gel Bush]

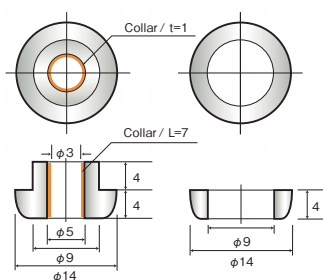


[SN Sheet]

Product Details

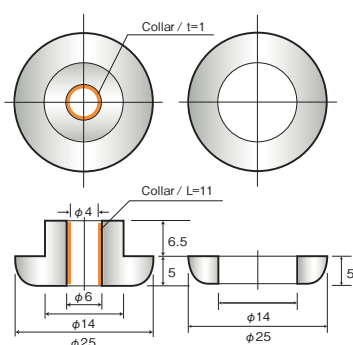
Gel Bush

[A type]

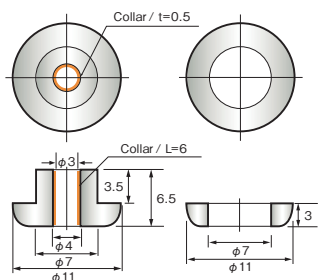


Unit:mm

[B type]



[S type]

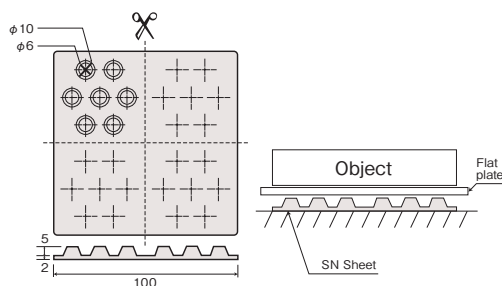


Unit:mm

Part No.	Optimum Load (kg/4 points)	Resonance Point(Hz)	Resonance Magnification(dB)	Recommended Frequency range(Hz)
A-0	0.2 ~ 0.8	73 ~ 39	5 ~ 7	0.2Kg:112 ~ / 0.8Kg:62 ~
A-1	0.5 ~ 2.5	67 ~ 35	9 ~ 10	0.5Kg:95 ~ / 2.5Kg:50 ~
A-2	2.5 ~ 4	49 ~ 37	15 ~ 16	2.5Kg:70 ~ / 4Kg:55 ~
A-3	5 ~ 20	56 ~ 29	19 ~ 21	5Kg:83 ~ / 20Kg:45 ~
B-0	0.6 ~ 2	43 ~ 27	5 ~ 7	0.6Kg:66 ~ / 2Kg:42 ~
B-0.5	2 ~ 9	45 ~ 27	8 ~ 10	2Kg:68 ~ / 9Kg:42 ~
B-1	4 ~ 15	49 ~ 23	15 ~ 17	4Kg:70 ~ / 15Kg:35 ~
B-2	15 ~ 32	38 ~ 20	19 ~ 23	15Kg:55 ~ / 32Kg:25 ~
S	0.2 ~ 0.75	64 ~ 42	7 ~ 9	0.2Kg:90 ~ / 0.75Kg:60 ~
S-5	0.6 ~ 1	58 ~ 38	2 ~ 4	0.6kg:81 ~ / 1kg:53 ~
S-6	3.5 ~ 4.5	40 ~ 31	4 ~ 8	3.5kg:55 ~ / 4.5kg:43 ~
S-8	10 ~ 14	30 ~ 28	12 ~ 13	10kg:43 ~ / 14kg:39 ~

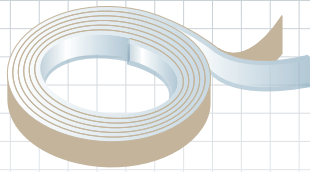
Collar material : Brass or SUS303

SN Sheet

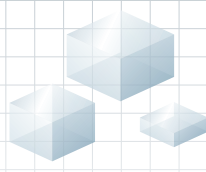


Unit:mm

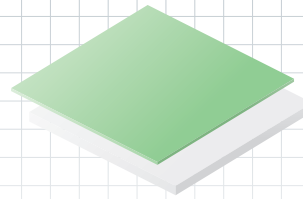
Part No.	Optimum Load (kg/4 points)	Resonance Point(Hz)	Resonance Magnification(dB)	Recommended Frequency range(Hz)	Deflection (mm)	Color
SN-2	0.5 ~ 2	27 ~ 21	6	38 ~	1.4 ~ 3	yellow
SN-5	2 ~ 5	29 ~ 23	8	40 ~	1.5 ~ 2.5	green
SN-15	5 ~ 15	26 ~ 18	13	37 ~	1.1 ~ 2.2	orange
SN-50	15 ~ 50	22 ~ 15	20 ~ 18	30 ~	0.7 ~ 2	blue



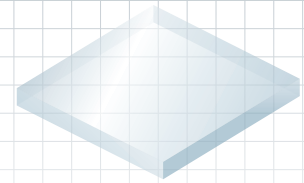
[Gel Tapes]



[Gel Chips]



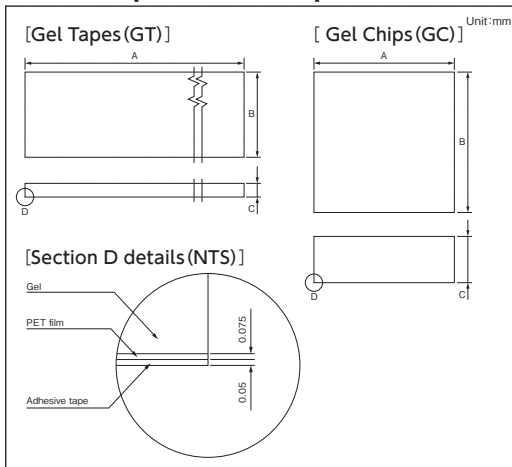
[Foam type Gel (NP Gel)]



[Gel Sheet (θ (THETA) series)]

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Gel Tapes/Gel Chips



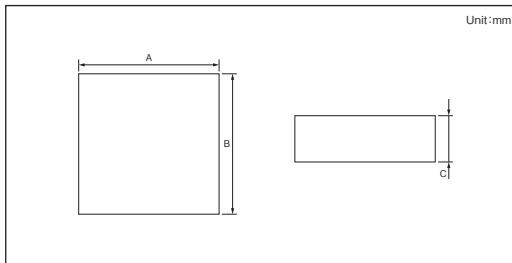
Part No.	A	B	C
GT-1	1,000	10	1
GT-2	1,000	20	1
GT-3	1,000	10	2
GT-4	1,000	20	2
GT-5	1,000	10	3
GT-6	1,000	20	3

Part No.	A	B	C
GC-1	10	10	3
GC-2	10	10	5
GC-3	15	15	3
GC-4	15	15	5
GC-5	15	15	10
GC-6	20	20	3
GC-7	20	20	5
GC-8	20	20	10

※ θ-5GEL is used. One-side with power. One-side with adhesive tape.

※ GC type: Each item is delivered in 25pcs/sheet.

Foam type Gel (NP Gel) / Gel Sheet (θ series)



Part No.	A	B	C
NP Gel (Green)	450	2,000	3
NP Gel (White)	300	1,000	6

※ Powder is applied to the surface for 3mm thick material.

Part No.	A	B	C
θ-7	250 or 500	250 or 500	0.5~30
θ-5	250 or 500	250 or 500	0.5~30
θ-6	250 or 500	250 or 500	0.5~30
θ-8	250 or 500	250 or 500	0.5~30

※ Options: GEL/with PET Film/with Adhesive Tape/with Powder/Nontacky

[Physical Characteristics]

Item(unit)	Characteristics					Remark
	θ-7	θ-5	θ-6	θ-8	NP Gel	
Appearance	Translucent	Translucent	Translucent	Translucent	Green or White	
Specific Gravity	1.06	1.05	1.06	1.07	0.26	
Hardness	Needle penetration (1/10mm) ①	100	55	—	—	JIS K 2207
	Asker C ②	—	33	52.5	—	JIS K 7312
Tensile Strength (MPa)	0.23	1.17	1.58	2.35	0.32	JIS K 6251
Elongation (%)	480	710	480	300	73	JIS K 6251
Young's Modulus (kPa)	37.5	119.5	670.3	1432.6	269.5	
Specific Heat (J/g·K)	1.51	1.52	1.51	1.52	1.15	DSC
Thermal Conductivity (W/m·K)	0.20	0.20	0.20	0.20	0.06	③
Specific Volume Resistance Ratio (Ω·cm)	2.9×10^{14}	4.0×10^{14}	3.2×10^{14}	6.6×10^{14}	3.8×10^{14}	JIS K 6911
Dielectric Breakdown Strength (kV/mm)	16.3	15.1	18.4	18.7	3.8	JIS C 2110
Chemical Resistance	Toluene	×	×	×	×	JIS K 6258 room temperature ×168h
	Acetone	×	×	×	×	
	Methanol	○	○	○	○	
	Distilled H ₂ O	○	○	○	○	
	Fuel Oil	×	×	×	×	
	Lubricant Oil	×	×	×	×	
	NaCl (10%)	○	○	○	○	
	HCl (10%)	○	○	○	○	
	NaOH (5%)	○	○	○	○	
Operating temperature range (°C)	−40~+200	−40~+200	−40~+200	−40~+200	−40~+200	

① Hardness is represented by the depth of the needle going into the gel.

② Rubber Hardness Meter. Hardness is represented by rebounding distance when the needle contacts the surface of the gel.

③ QTM 500 (KYOTO)

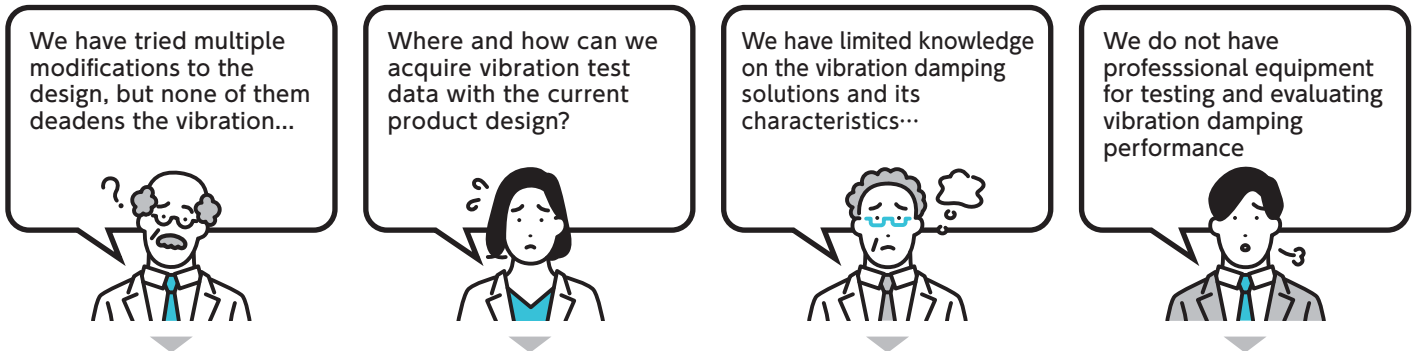
[Note] ※ Silicone oil may bleed depending upon conditions. ※ Low molecular siloxane is included in this product which basically composed of silicone. ※ Above data are measured data, not guaranteed specifications.

Vibration Control Design Assistance Service

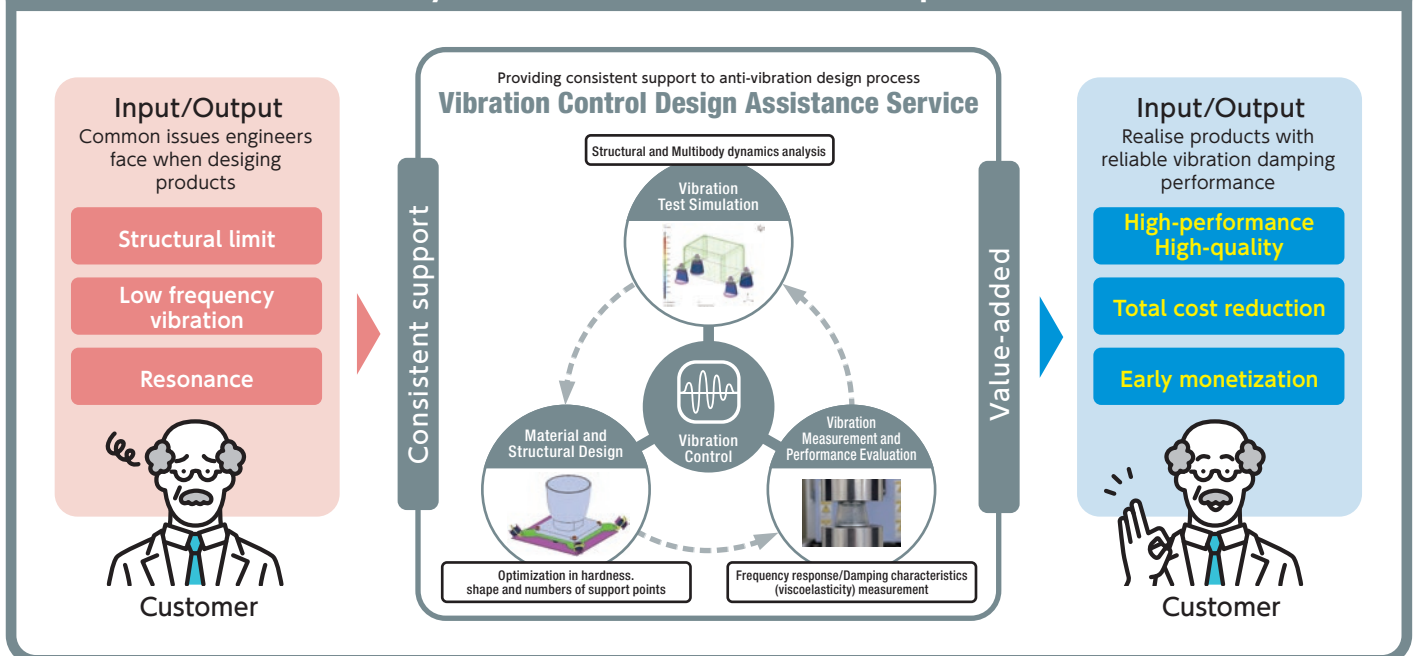
We employ over 30 years of experience in the field of vibration control and our strong and creative team of engineers provide the optimum vibration damping design for your products.



Have you ever faced challenges or issues in vibration isolation design like below?



Providing the best-in-class solutions with the reliable design approach by the vibration isolation experts



Service Details

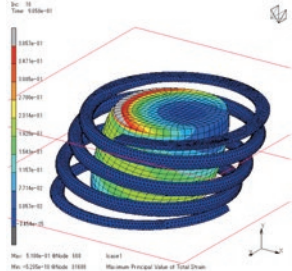
As a development partner for vibration isolation design, we provide total support for vibration test simulation, material and structural design, vibration measurement and performance evaluation. We invite you to utilize the knowledge and technical know-how we have accumulated over the years in vibration isolation for your product development.

SERVICE.1

Vibration Test Simulation

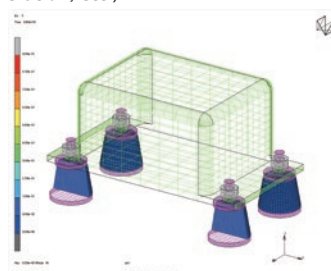
■ Structural Analysis Simulation

Structural analysis is a method of calculating and quantitatively analyzing deformation and stress when loads are applied to a modeled structure.



■ Multibody Dynamics Analysis Simulation

Multibody dynamics analysis is a method of analyzing the interaction and positional relationship of each component in a multi-component model based on the equations of motion (position, velocity, acceleration, etc.).



Benefits and Features

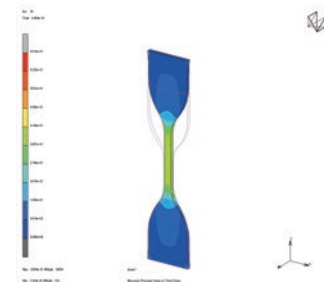
- Reduce reworks (errors in the design stage and repeated verification of prototypes on actual equipment) that occurs during conventional verification, thereby reducing total development costs (both cost and time). Contributes to early monetization by shortening the development period.

SERVICE.2

Material and Structural Design

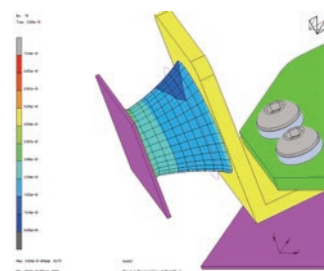
■ Material Design

Gel hardness, damping characteristics, product form factors can be customized based on technical and application requirements.



■ Structural Design

We can design the vibration damper exclusive for your product and application, while optimizing the surrounding structure.



Benefits and Features

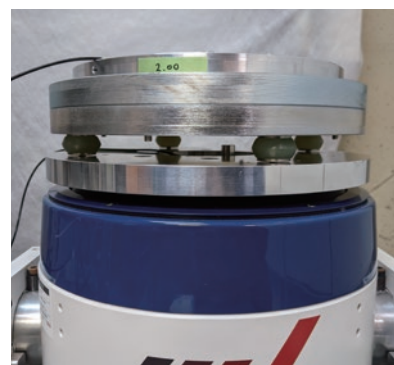
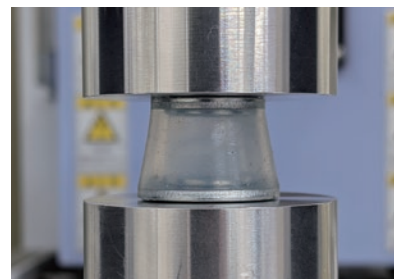
- We are able to provide optimal material design with the know-how we have accumulated over the years based on our extensive knowledge and experience in vibration isolation and our vast array of material parameters.

SERVICE.3

Vibration Measurement and Performance Evaluation

■ Vibration Measurement and Performance Evaluation

Various measurements such as reproducibility tests, vibration measurements, and physical property evaluations can be performed.



Vibration Shaker (Max. Loading Mass: 100kg)

Benefits and Features

- We can flexibly respond to customer needs and provide total support for vibration isolation design by using the data obtained from these tests for vibration isolation simulation and material and structural design.

Service Flow

Depending on the content of your consultation, we will respond flexibly and will propose a solution tailored to your needs.

STEP 1

Inquiry

STEP 2

Meeting (online)
Confirmation
of the request
and requirement

STEP 3

Setting Goals

STEP 4

Detailed
proposal of
services

STEP 5

Submission
of the quote

STEP 6

Agreement on
service details

STEP 7

Execution of
services

STEP 8

Service
completion

STEP 9

Follow-up
service

Vibration Control Design
Assistance Service
Contact Us

Taica Corporation / Multifunctional Materials Division

TEL.+81-3-6367-6624



Solutions for Vibration Control

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Taica

<https://taica.co.jp/gel/en/>



Taica Taica Corporation / Multifunctional Materials Division

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New Product Release Notification (Preliminary)
Vibration Control Products

Dear Valued Customers,

This letter serves as a preliminary notification that Taica Corporation is releasing new products in its Vibration Control solutions. We will make a separate announcement at its official release.

New Part Numbers:

Insulator θ (THETA) Type (Upper: Male Thread / Bottom: Male Thread):

θ -A-7-MM / θ -A-5-MM / θ -A-6-MM / θ -A-8-MM

Insulator θ Type (Upper: Female Thread / Bottom: Male Thread):

θ -A-FM / θ -A-7-FM / θ -A-5-FM / θ -A-6-FM / θ -A-8-FM / θ -B-FM / θ -C-FM / θ -TW-FM

Insulator θ Type (Upper: Female Thread / Bottom: Plate) :

θ -A-FP / θ -A-7-FM / θ -A-5-FM / θ -A-6-FM / θ -A-8-FM / θ -B-FP / θ -C-FP / θ -TW-FP

Insulator MN Type (Upper: Male Thread / Bottom: Male Thread):

MN-1-MM / MN-2-MM / MN-25-MM

Insulator MN Type (Upper: Female Thread / Bottom: Male Thread):

MN-1-FM / MN-2-FM / MN-3-FM / MN-5-FM / MN-7-FM / MN-10-FM / MN-25-FM

Insulator BG Type (Upper: Female Thread / Bottom: Male Thread):

BG-7-FM / BG-8-FM

Insulator SF Type (Upper: Male Thread / Bottom: Plate):

SF-0-MP / SF-1-MP

Insulator SF Type (Upper: Female Thread / Bottom: Plate):

SF-0-FP / SF-1-FP / SF-2-FP / SF-5-FP / SF-10-FP

Insulator SF Type (Rubber-coated) (Upper: Female Thread / Bottom: Plate):

SF-30-FP / SF-50-FP

Gel Bush Type:

A-0 / A-3 / B-0 / B-0.5 / S-5 / S-6 / S-8

Please kindly contact us if you have any further questions, require additional information or need further assistance concerning the replacement materials.

Contact information

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