



SOFT SILICONE GEL MOUNTS



- **Soft Enough To Damp To Lower Frequencies Than Rubber Mounts.**
- **Broad Temperature Range.**
- **Extremely Strong Metal Bond.**
- **Ideal for Sensitive Equipment.**

Ultra soft high damping silicone gel metal bonded mount. Outstanding vibration and shock absorbing properties. Able to damp to lower frequencies than traditional rubber or neoprene stud mounts. Can also absorb tiny vibrations. Suits load from 2kgs to 300kgs. Ideal for pump noise control, vibration protection of truck or bus mounted computers.

High strength metal to silicone bond mount. Male blank versions available for space saving requirements. Broad operating temp, stable performance over -40c to 200c. Excellent weatherability, Ozone UV and good chemical resistance. 15 mount sizes available. As the mounts are very soft they **can only be used in compressive direction only**. Not suitable for shear unless shear load is buffered. Compress up to 33% for optimum performance. This silicone based gel offers excellent shock and vibration damping. The material disperses impact three dimensionally due to its unique molecular structure.

Gelmecc UK

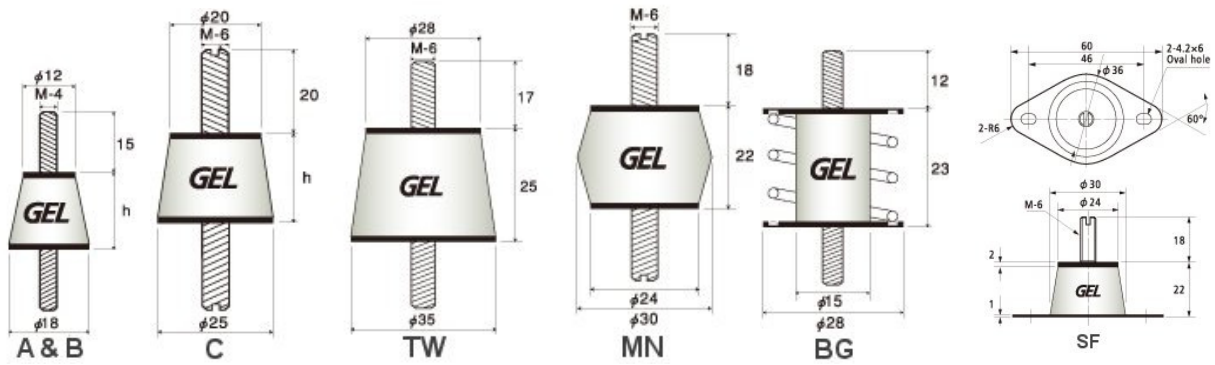
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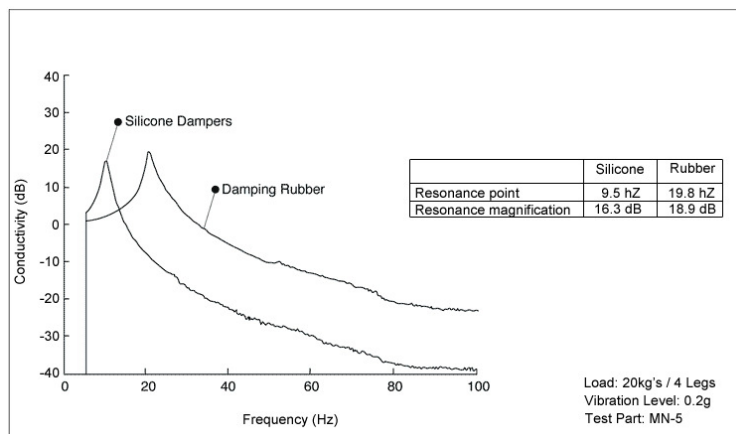


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Part No.	Shape	Optimum Load (kg/ 4 legs)	Height	Top Plate Diam	Bottom Plate Diam	Pin Length	Gel Diam	Screw Thread	Resonance Point (Hz)	Resonance Magnification (db)	Gel Type
THETA - A		2.0 to 3.2	12	12	18	15	18	M4	16 to 15	12	1
THETA - B		1.6 to 2.4	18	12	18	15	18	M4	13 to 11	13 to 12	1
THETA - C		3.2 to 8.0	18	20	25	20	25	M6	14 to 12	13 to 12	1
MN 3		8 to 14	22	24	24	18	30	M6	12 to 10	12	6
MN 5		14 to 22	22	24	24	18	30	M6	11 to 10	14 to 13	6
MN 7		22 to 34	22	24	24	18	30	M6	11 to 10	16 to 15	6
MN 10		34 to 50	22	24	24	18	30	M6	11 to 10	20 to 18	6
THETA - TW		50 to 100	25	28	35	17	35	M6	10 to 8	20 to 19	8
BG 7		3.2 to 6.4	23	28	28	12	15	M3	10 to 8	14 to 14	5
BG 8		6 to 16	23	28	28	12	15	M6	10 to 8	18 to 16	5
SF 2		5 to 13	22	24	30	18	30	M6	15 to 10	12 to 13	6
SF 5		13 to 30	22	24	30	18	30	M6	13 to 9	15 to 16	6
SF 10		30 to 50	22	24	30	18	30	M6	12 to 9	20 to 21	8
SF 30		See Data Sheet	100 to 140	34	82 appx	132	30	76	M10	8 to 9	18 to 19
SF 50	See Data Sheet	120 to 300	34	82 appx	132	30	76	M10	10 to 15	12 to 18	8

Dimensions (mm)



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Material Properties

Gel Type / Unit		A	B	1	7	5	6	8	Remark
Appearance		Transparent	White	Translucent	Translucent	Translucent	Translucent	Translucent	-
Hardness	Needle Penetration (1/10mm) (1)	150	100	-	100	55	-	-	JIS K 2207
	Asker C(2)	-	-	6 – 12	-	-	33	52.5	SRIS 0101
Shore A Equivalent (appx)		6	10	-	10	14	20	28	-
Specific Gravity		0.98	0.56	1.00 – 1.06	1.06	1.05	1.06	1.07	-
Tensile Strength		0.03	0.14	1.0	0.23	1.17	1.58	2.35	JIS K 6251
Elongation %		340	220	800	480	710	480	300	JIS K 6251
Young Modulus (kPa)		28.9	150.7	156.2	37.5	119.5	670.3	1432.6	-
Specific Heat (j/g.K)		1.55	1.61	1.5	1.51	1.52	1.51	1.52	DSC
Thermal Conductivity (W/m.K)		0.18	0.10	0.80	0.20	0.20	0.20	0.20	-
Specific Volume Resistance Ratio (Ohms-cm)		2.1 * 10 ¹⁴	3.7 * 10 ¹²	5.0 * 10 ¹²	2.9 * 10 ¹⁴	4.0 * 10 ¹⁴	4.0 * 10 ¹⁴	6.6 * 10 ¹⁴	JIS K 6911
Dielectric Breakdown Strength (kV/m)		16.7	17.1	20.0	16.3	15.1	18.4	18.7	JIS K 2110
Chemical Resistance	Toluene	X	X	X	X	X	X	X	JIS K 6258 Room Temp x 168h
	Acetone	X	X	X	X	X	X	X	
	Methanol	O	X	O	O	O	O	O	
	Distilled H ₂ O	O	O	O	O	O	O	O	
	Fuel	X	X	X	X	X	X	X	
	Lubricant	X	X	X	X	X	X	X	
	NaCl (10%)	O	O	O	O	O	O	O	
	HCl (10%)	O	O	O	O	O	O	O	
NaOH (5%)	O	O	O	O	O	O	O		
Normal Temperature Range (°C)		-40 to 120	-40 to 120	-40 to 200	-40 to 200	-40 to 200	-40 to 200	-40 to 200	-
<p>(1) The needling depth into the gel represents the hardness. (2) Rubber Hardness Meter. Hardness is represented by rebounding distance when needle contacts the gel surface.</p>									

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