2-Component Room Temperature-Curable Thermal-Conductive Greases CGW® Series

CGW® Series are 2-Component liquid silicone thermal-conductive greases curable at room temperature. Use of filling devices make the filling process automatic.
The grease softens during assembly, reducing stress on components such as PCBs and cabinets. The grease starts curing after mixture of 2-component liquid and realizes high reliability and does not pump-out.
Mixing ratio is A:B=1:1. Pot life is 2hours long after the mixture and the grease will be cured in 24hours at room temperature.
The grease becomes hardened material with elasticity and flexibility so that it can follow vibration during usage.
CGW® Series is used for vehicle control parts and battery due to high durability of silicone.
It can be used nearby contacts as the low-molecular siloxane content is no more than 70ppm. We are also capable of customizing to control the minimum film thickness by adding glass beads.
No need to storage in a cool dark place and storage limitation is 6 months at room temperature-environment.

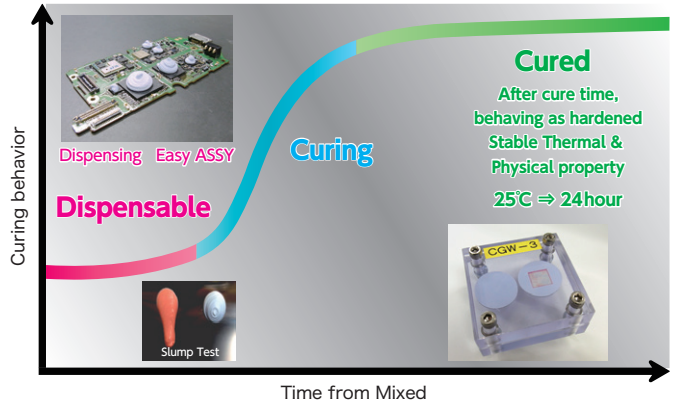
Characteristics

Specifications	Unit	CGW-2	CGW-3	CGW-3.6	CGW-4.5
Thermal Conductivity※1	W/(m・K)	2	3	3.6	4.5
Color (A)/(B)	—	Green / White	Blue / White	Ligh Blue / White	Beige / White
Viscosity (A)/(B)※2	Pa・s	240 / 220	260 / 240	260 / 230	250 / 250
Viscosity (Mixture)※2	Pa・s	230	250	260	250
Hardness	TypeOO	50	55	40	55
	TypeE	25	30	20	30
Specific Gravity	—	1.95	2.75	2.85	3.15
Pot Life @25°C	Hour	≧2	≧2	≧2	≧2
Cure Time @25°C	Hour	24	24	24	24
Volume Resistance	Ω・cm	≧1×10^{10}	≧1×10^{10}	≧1×10^{10}	≧1×10^{10}
Breakdown Strength	AC kV/mm	≧10	≧10	≧10	≧10
Flame Retardance	UL94	V-0	V-0	V-0	V-0
Operating Temperature Range	°C	-40 ～ 150	-40 ～ 150	-40 ～ 150	-40 ～ 150

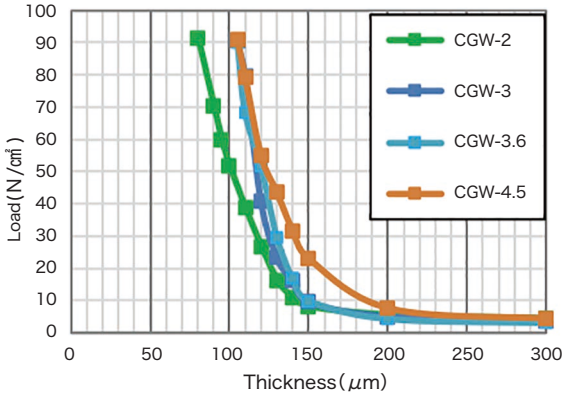
※1 ASTM D5470 ※2 Viscosity measurement method：B Type Viscometer

※ Specification of CGW-4.5 is subject to change without any notification.

Cure Time



Load Comparison at The State of Grease



※ Numerical values shown in the graphs and table are actual measured, not product standard values.