

THERMAL GREASE 1100

Ceramic-filled single-component silicone with high thermal conductivity



Thermal grease is a ceramic-filled single-component silicone with high thermal conductivity. The non-cross linked thermal compounds will not dry out and the silicone components do not leak out of the compound. The silicone-free thermal compound 1100-12 consists of synthetic, thermal polymer and is suitable for fast and effective heat dissipation.

The paste is particularly suitable for silicone-sensitive applications. The long-term stability of our 1100 series guarantees full functionality during the entire lifetime of the product. Under normal application conditions Thermal grease will not cure, dry out, or melt.

SILICONE-FREE VERSION

The silicone-free Thermal compound 1100-12 consists of synthetic, thermal polymer and is suitable for fast and effective heat dissipation. This paste is particularly suitable for silicone-sensitive applications. Its long-term stability guarantees full functionality during the entire lifetime of the product. Under normal application conditions the 1100-12 silicone-free compound will not cure, dry out, or melt.

STORAGE

Special storage is not required for our Thermal grease, so it can be stored under normal climate conditions for up to 12 months. If any separation of the filler materials is noted, the 1100 series must be mixed thoroughly before use.

PROPERTIES PER PART NUMBER

Properties	Unit	1100-97	1100-98	1100-99	1100-12
Color		White	Gray	Anthracite	Silver
Compound		Soft / pasty			
Thermal properties					
Thermal resistance Rth	K/W	0.0120	0.0100	0.0068	0.0060
Thermal impedance Rti	°Cm ² /W KIN ² /W	4.5 0.007	4.1 0.0064	2.7 0.0042	2.2 0.0033
Thermal conductivity	W/mK	5.0	6.0	9.2	10.0
Electrical properties					
Electrical conductivity (according to DIN 51412-1)	pS/m	0	0	0	53
Mechanical properties					
Measured thickness (+/- 10%)	Mm	0.025			
Physical properties					
Application temperature	°C	-60 to +200	-60 to +200	-60 to +200	-60 to +150
Density	G/cm ³	2.1	2.2	1.9	1.4
Viscosity*	Pas	70-110	110-150	90-140	30-60
Total mass loss (TML)	Ma-%	< 1.3	< 1.5	< 0.80	< 0.1
Possible thickness	Mm	Variable			

ORDER EXAMPLE

Series	Type
1100	97 : White 98 : Gray 99 : Anthracite 12 : Silver