



HFC SHIELDING

PROFESSIONAL • CONCENTRATIVE • DEDICATED

Innovative Materials Manufacturer

Silicone Free Thermal Conductive Gel series

【Thermal Gap filler】

DATA SHEET



- Product picture -

FEATURES:

- High thermal conductivity, low thermal resistance
- Working under low pressure
- No silicone oil volatilization, no pollution
- Excellent electrical insulation performance and heat resistance

APPLICATIONS:

- Semiconductor and radiators
- Optical precision equipment
- Vehicle electronics
- LED and Medical electronics
- CPU and GPU

STORAGE TEMPERATURE: -18°C

The series of products are accord with standards of RoHS and HALOGEN.

STORAGE CONDITIONS:

- In order to ensure that the products maintain the quality, it should be kept in -18 °C temperature conditions.
- During the storage period, make sure that the container is sealed to protect electrical performance from external contaminants.

PACKING SPECIFICATIONS:

- 30cc/ 55cc/ 300cc

Silicon Free Thermal Gel is a thermal interface material without a low molecular siloxane. Silicone oil volatilization and pollution of components. It is especially suitable for places sensitive to silicone oil. Because its thickness is not sensitive and it has good adaptability in the equipment assembly-process, so that it is compatible with tolerance of the relevant devices or structures brought by different Sizes.

PROPERTIES

Items	Parameter		Unit	Test Method
	HTG-300SF	HTG-500SF		
Appearance	White pasty substance	Grey pasty substance	-	Visual
Density	3.11±0.5	3.05±0.5	g/cm ³	ASTM D 792
Volatilization Point	0	0		GB/T 269-1991
Extrusion rate	10±3(@0.6Mpa)	5±2(@0.6Mpa)	g/min	-
Needle penetration	24±3	16±3	mm	GB/T 4985-2010
50% Instantaneous compressive stress	<40	<20	Psi	GB/T 7757-2009
50% Static compressive stress	<1	<1	Psi	GB/T 7757-2009
Adhesive force	<15	<15	Psi	-
Operating Temperature	-50~150	-50~150	°C	-

THERMAL CHARACTERISTIC

Thermal Conductivity	3.0(±0.25)	5.0(±0.5)	W/m·K	ASTM D 5470
Thermal Resistance	≤0.07(@20Psi)	≤0.06(@20Psi)	°Cin ² /W	ASTM D 5470

ELECTRICAL PROPERTIES

Breakdown Voltage	≥8(@1mm)	≥8(@1mm)	KV	ASTM D 149
Volume Resistivity	≥1.0*10 ⁸	≥1.0*10 ⁸	Ω.cm	ASTM D 257

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