

White Ice 510

Silicone Thermal Grease

DESCRIPTIONS

White Ice 510 is a non-reactive, Silicone, Thermally Conductive Grease with a high thermal conductivity and low thermal resistance with a soft, non-flowable and screen printable consistency. This product is formulated with specialty binding agents to achieve lowest amount of bleed and evaporations. It is designed for applications where a silicone thermal interface material is required and where the device may later need to be easily removed from the heat sink. This compound is ideally suited for use in thin cross-sectional thicknesses down to ≤ 1 mil.

KEY FUTURES AND BENEFITS

- Minimum bleed and evaporation
- Thermal Conductivity (**0.8 W/m-K**)
- Thixotropic Paste
- RoHS Compliant-Halogen Free
- Thin BLT < 25 micron

APPLICATIONS

- Interface for semiconductors requiring low pressure or spring clamp mounting
- Thermal sensors, TEC modules, Thermal Wells
- IGBT's, LED
- Power Transistors, Diodes, Power Resistors
- CPU/GPU/Heat Sink

AVAILABILITY

Syringes (3cc, 10cc, 30cc). Jars (8 oz & 1 Kg). Cartridges (6 oz. Semco & 300cc).
1 gallon & 5 gallon pail

Typical Property	Test Method	Results
Type		Silicone
Special Future		Screen printable, thin BLT <25 micron
Color	Visual	White
Viscosity 5 rpm @ 25°C, PaS	Helipath	150
Specific Gravity	ASTM D792	2.2
Operating Temperature Range.°C		-55°C to 200°C
Shelf Life @25C		5 years
THERMAL		
Thermal Conductivity (W/m-K)	ASTM D5470	0.8
Thermal Resistance °C-in ² /W	ASTM D5470	0.05
ELECTRICAL		
Breakdown Voltage (KV/mm)	ASTM D149	15
Dissipation Factor (1KHz)	ASTM D150	0.0021
Volume Resistivity (Ohm-cm)	ASTM D257	10 ¹⁴

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