

White Ice 511

Silicone Thermal Grease

DESCRIPTIONS

White Ice 511 is non-reactive; fully ceramic based Thermally Conductive Grease with a high thermal conductivity and low thermal resistance. This product is formulated with specialty binding agents to achieve lowest amount of bleed and evaporations. It is designed for applications where efficient thermal transfer required. Offers excellent stability over wide temperature ranges. Easy to apply by dispensing or screen print/Stencil.

KEY FUTURES AND BENEFITS

- High Di-Electric Strength
- Thermal Conductivity (**2.0 W/m-K**)
- Thixotropic Paste
- RoHS Compliant-Halogen Free
- Re-Workable

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		High Thermal Conductivity High Di-Electric Strength-Low Di-Electric Constant
Color	Visual	White
Viscosity 5 rpm @ 25°C, PaS	Helipath	50
Specific Gravity	ASTM D792	2.5
Operating Temperature Range.°C		-55°C to 200°C
Shelf Life @25C		5 years
THERMAL		
Thermal Conductivity (W/m-K)	ASTM D5470	2.0
Thermal Resistance °C-in ² /W	ASTM D5470	0.025
ELECTRICAL		
Breakdown Voltage (KV/mm)	ASTM D149	16
Di-Electric Constant (1KHz)	ASTM D150	9
Dissipation Factor (1KHz)	ASTM D150	0.0028
Volume Resistivity (Ohm-cm)	ASTM D257	10 ¹⁴

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