



# Blue Ice™412

**Non-Silicone Thermal Grease** 

## **DESCRIPTIONS**

**Blue Ice 412** Heat Sink Compound specially formulated with thixotropic agent to control bleed and pump out during thermal cycles. Offers high thermal conductivity, low thermal resistance and excellent wetting property No-Slump property allowed using in vertical applications.

**Blue Ice 412** has been engineered to solve the problems of contamination and migration associated with silicone-based products. The compound is unique Polysynthetic-based thermal grease used to insure rapid and efficient heat transfer and dissipation for the full operational life of your hardware

## **KEY FUTURES AND BENEFITS**

- Thixotropic Paste-No-Slump Type
- Cost-Effective Thermal Solution
- Non-Silicone Advantages, No creep or contamination
- Thin Bond line Thickness >40 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

### **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
Туре		Silicone Free
Special Future		High Dielectric. Thixotropic. Minimum pump out
Color	Visual	White
Viscosity 5 rpm @ 25°C, PaS	Helipath	400
Specific Gravity	ASTM D792	2.7
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-in²/W	ASTM D5470	0.03
ELECTRICAL		
Breakdown Voltage (KV/mm)	ASTM D149	16
Dissipation Factor (1KHz)	ASTM D150	0.003
Volume Resistivity (Ohm-cm)	ASTM D257	10^14

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