

# NON-SILICON THERMAL GREASE

## TIMTRONICS Blue Ice™ 411

### DESCRIPTION

**Blue Ice 411** Heat Sink Compound specially formulated with low viscosity and excellent wetting agent to achieve thinnest film possible to lower thermal resistance. Low viscosity makes it easy to dispense or screen print/stencil.

**Blue Ice 411** 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

- Low viscosity, screen printable
- Cost-effective thermal solution
- Non-Silicone advantages, no creep or contamination
- Thin bond line thickness <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

### AVAILABILITY

Syringes (3cc & 10cc) and Jars (1 Kg)



Typical property	Test method	Results
Type		Silicone free
Special future		Low Vis, Thin BLT, Screen printable
Color	Visual	White
Viscosity 5 rpm @ 25°C, PaS	Helipath	90
Specific gravity	ASTM D792	2.4
Operating Temperature Range, °C		-55°C to 200°C
Shelf life @25C		5 years
Thermal conductivity (W/m-k)	ASTM D5470	0.8
Thermal Resistance °C-in	ASTM D5470	0.03
Breakdown Voltage (KV/mm)	ASTM D149	12.4
Dissipation Factor (1KHz)	ASTM D150	0.0021
Volume Resistivity (Ohm-cm)	ASTM D257	10 <sup>14</sup>