

## Red Ice 613

### High Temperature Stable Thermal Grease

#### DESCRIPTIONS

**Red Ice 613** is specifically designed to eliminate compound “dry-out” problems due to the continuous exposure temperatures exceeding 200°C (392°F). This silicone thermal compound specially formulated for applications with continuous temperatures exceeding 200°C (392°F) and intermittent temperatures **up to 250°C (482°F)**. It shows outstanding stability and efficient heat transfer for the full operational life of your hardware.

**Red Ice 613** offers high thermal conductivity and high temperature stability **up to 250°C (482°F)**. This thixotropic compound provides high di-electric property, excellent wetting, dispensability and long term stability.

#### KEY FUTURES AND BENEFITS

- **Rated Up to 250°C (482°F)**
- **High Thermal Conductivity (1.2 W/m-K)**
- Low Out-Gassing
- Low viscosity
- Re-workable, Dispensable

#### APPLICATIONS

- Heater cartridges, heating coil/plate, tank heater.
- Thermal sensors, TEC modules, Thermal Wells
- High power 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
Type		Silicone
<b>Special Future</b>		<b>High Temperature Stable up to 250°C (482°F) High Thermal Conductivity and Di-electric property</b>
Color	Visual	White
Viscosity 50 rpm @ 25°C, PaS	Helipath	60
Specific Gravity	ASTM D792	2.3
Operating Temperature Range. °C		-55°C to 250°C
Out Gassing: % TML % CVCM	ASTM-E595 Internal Test data	ND ND
Shelf Life @25C		5 years
<b>THERMAL</b>		
Thermal Conductivity (W/m-K)	ASTM D5470	<b>1.2</b>
Thermal Resistance °C-in <sup>2</sup> /W	ASTM D5470	0.04
<b>ELECTRICAL</b>		
Breakdown Voltage (KV/mm)	ASTM D149	16
Dissipation Factor (1KHz)	ASTM D150	0.0025
Volume Resistivity (Ohm-cm)	ASTM D257	10 <sup>14</sup>

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