

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 non-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 shown 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
Special Future		High Temperature Stable up to 250°C (482°F) High Thermal Conductivity and Di-electric property
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
THERMAL		
Thermal Conductivity (W/m-K)	ASTM D5470	1.2
Thermal Resistance °C-in ² /W	ASTM D5470	0.04
ELECTRICAL		
Breakdown Voltage (KV/mm)	ASTM D149	16
Dissipation Factor (1KHz)	ASTM D150	0.0025
Volume Resistivity (Ohm-cm)	ASTM D257	10 ¹⁴

DISCLAIMER: All statements, technical information, and recommendations related to Timtronics products are based on information believed to be reliable, but accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You must assume all risks and liability associated with such use. Timtronics will not be liable for any indirect, special, incidental or consequential loss or damage arising from this product, regardless of legal theory asserted.