

Grey Ice 4200

Non-Silicone Thermal Grease

DESCRIPTIONS

Grey Ice 4200 is a specially formulated with tacky and thixotropic texture to control oil bleed/migration and pump-out during thermal cycling. Offers excellent stability over wide temperature ranges with high thermal conductivity and low thermal resistance. Exhibits excellent resistance to pump out, outgassing and phase separation while eliminating concern of silicone deposition on optics and electronics within any package

Grey Ice 4200 is high performance thermal grease designed to meet the thermal, reliability and low price requirements of high-end chipset, graphic processors trend ever-faster clock speeds. RoHS compliant and halogen -free

KEY FUTURES AND BENEFITS

- Zero Pump out and Phase Separation
- High Thermal Conductivity (**3.2 W/m-K**)
- Tacky, Thixotropic Paste
- RoHS Compliant-Halogen Free
- Non-Silicone Advantages, No creep or contamination

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 Free
Special Future		High Thermal Conductivity. Tacky, Zero pump out
Color	Visual	Grey
Viscosity 5 rpm @ 25°C, PaS	Helipath	450
Specific Gravity	ASTM D792	2.4
Operating Temperature Range.°C		-55°C to 200°C
Shelf Life @25C		18 Months
THERMAL		
Thermal Conductivity (W/m-K)	ASTM D5470	3.2
Thermal Resistance °C-in ² /W	ASTM D5470	0.01
ELECTRICAL		
Breakdown Voltage (KV/mm)	ASTM D149	2.8
Dissipation Factor (1KHz)	ASTM D150	0.12
Volume Resistivity (Ohm-cm)	ASTM D257	10 ⁹

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