

Black Ice 713

High Temperature Stable-Electrically and Thermally Conductive Putty

DESCRIPTIONS

Black Ice 713 is **Non- Silicone based re-workable putty type**, Carbon-Graphite filled thermally and electrically conductive highly viscous thixotropic paste. Offers continuous electrical and thermal path with **high temperature stability up to 360°C**. Specially designed to achieve full interface contact at low pressure in large gap.

Black Ice 713 used in high power electrical applications to improve the operational efficiency and high temperature stability with efficient heat transfer required.

KEY FUTURES AND BENEFITS

- **Rated up to 360°C**
- Thermal Conductivity (**1.8 W/m-K**)
- Low Resistivity (**<25 ohm-cm**)
- Re-workable. Non curable Gel
- No-Slump/Stable at high temperature

APPLICATIONS

- Electrical contacts, EMI/RFI sealing and shielding
- Electro Static Discharge (ESD) anti-static systems. RF Modules
- Power Transistors, Diodes, Power Resistors

AVAILABILITY

30cc Syringe, 1 Kg Jar and 300cc Cartridge

Typical Property	Test Method	Results
Type		Silicone Free
Special Future		Electrically and Thermally Conductive High Temperature Stable up to 360°C
Color	Visual	Black
Viscosity 5 rpm @ 25°C, PaS	Helipath	>5000
Specific Gravity	ASTM D792	3.2
Operating Temperature Range.°C		-55°C to 360°C
Shelf Life @25C		5 years
THERMAL		
Thermal Conductivity (W/m-K)	Laser Flash	1.8
Thermal Resistance °C-in ² /W	ASTM D5470	N/A
ELECTRICAL		
Breakdown Voltage (KV/mm)	ASTM D149	N/A
Dissipation Factor (1KHz)	ASTM D150	N/A
Volume Resistivity (Ohm-cm)	ASTM D257	<25

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