

# Black Ice 711

Electrically and Thermally Conductive Grease

## DESCRIPTIONS

**Silver Ice 711** is **low cost, Non-Silicone based** re-workable, Carbon-Graphite filled thermally and electrically conductive grease. Offers surface to surface, metal to metal and sliding contact requiring continuous electrical and thermal path. Specially designed to offer wet film to achieve full interface contact at low pressure.

**Silver Ice 711** used in high power electrical applications to improve the operational efficiency in switches, circuit breaker, knife blade switches and other sliding metal contact. Excellent choice for communication equipment, cell phone connections, antenna, HAM radio, lighting and motion sensor.

## KEY FUTURES AND BENEFITS

- Thermal Conductivity (**2.2 W/m-K**)
- Low Resistivity ( **<25 ohm-cm**)
- Re-workable **Wet Film**, Non curable
- Non-Silicone Advantages, No creep or contamination
- Thin Bond line Thickness <25 micron

## APPLICATIONS

- Electrical contacts, EMI/RFI sealing and shielding
- Electro Static Discharge (ESD) anti-static systems. RF Modules
- Power Transistors, Diodes, Power Resistors
- High power cpu/heat sink/liquid cooling

## 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
<b>Special Future</b>		<b>Electrically and Thermally Conductive Wet type film, Excellent stability</b>
Color	Visual	Black
Viscosity 5 rpm @ 25°C, PaS	Helipath	250
Specific Gravity	ASTM D792	1.3
Operating Temperature Range.°C		-55°C to 200°C
Shelf Life @25C		5 years
<b>THERMAL</b>		
Thermal Conductivity (W/m-K)	Laser Flash	<b>2.2</b>
Thermal Resistance °C-in <sup>2</sup> /W	ASTM D5470	0.05
<b>ELECTRICAL</b>		
Breakdown Voltage (KV/mm)	ASTM D149	N/A
Dissipation Factor (1KHz)	ASTM D150	N/A
Volume Resistivity (Ohm-cm)	ASTM D257	<25

**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.