

**White Ice 510FG**  
NSF Approved Thermal Grease



Registration: 139292

**DESCRIPTIONS**

**White Ice 510FG** is a non-reactive, Silicone, Thermally Conductive Grease with a high thermal conductivity and low thermal resistance with a soft, easily spreadable and screen printable consistency

This product is formulated with FDA (Food & Drug Administration) approved ingredients in compliance with CFR, Title 21 paragraph 178.3570 of the FDA guidelines and NSF Registered. This product is acceptable as incidental food contact for use in and around food processing areas.

**NSF Registration Number. 139292**

**KEY FUTURES AND BENEFITS**

- **NSF Approved, Rated up to 200°C**
- Thermal Conductivity (**1.0 W/m-K**)
- Thixotropic Paste
- RoHS Compliant-Halogen Free
- Thin BLT < 25 micron

**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	NSF Registration Number.139292 Company Number: N06854	Screen printable, thin BLT <25 micron
Color	Visual	White
Viscosity 5 rpm @ 25°C, PaS	Helipath	150
Specific Gravity	ASTM D792	2.2
Operating Temperature Range.°C		-55°C to 200°C
Shelf Life @25C		5 years
<b>THERMAL</b>		
Thermal Conductivity (W/m-K)	ASTM D5470	<b>1.0</b>
Thermal Resistance °C-in <sup>2</sup> /W	ASTM D5470	0.05
<b>ELECTRICAL</b>		
Breakdown Voltage (KV/mm)	ASTM D149	15
Dissipation Factor (1KHz)	ASTM D150	0.0021
Volume Resistivity (Ohm-cm)	ASTM D257	10 <sup>14</sup>

**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