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**COOL-GREASE  
 CGR7018**

**Non-Silicone Compound  
 Non-curing  
 Very High Thermal Conductivity**

**IDEAL FOR:**

- Silicone Thermal Grease Replacement**
- Power Device & Heatsink Interface**
- Thick Interface Layer**

**DESCRIPTION:**

CGR7018 is a reworkable, aluminum nitride filled, electrically insulating and thermally conductive paste which exhibits outstanding thermal transfer in comparison to most adhesives. The non-curing nature of CGR7018 makes it ideal as interfacial compound for thermal transfer for power devices and heat sinks. With one of the highest thermal conductivity and lowest thermal interface resistance among all thermal greases, CGR7018 have been proven as the standard in providing system thermal resistance of 0.06°C/W-sq.in. with nominal increase for thickness.

**AVAILABILITY:**

CGR7018 is available in syringes for automatic needle dispense applications or in jars.

**APPLICATION PROCEDURES:**

( 1 ) Dispense material onto clean substrate. Syringe application may require >50psi pressure.

**TYPICAL PROPERTIES\***

<b>Electrical Resistivity</b>	<b>&gt;1X10<sup>13</sup> ohm-cm</b>
<b>Tensile Elongation (%)</b>	<b>Non-curing</b>
<b>Current Carrying Capability</b>	<b>Not Applicable</b>
<b>Cured Density (gm/cc)</b>	<b>2.3</b>
<b>Thermal Conductivity</b>	<b>28 Btu-in/hr-ft<sup>2</sup>-°F 4.0 W/m-°C</b>
<b>Linear Thermal Expansion Coeff. (ppm/°C)</b>	<b>Non-curing</b>
<b>Maximum Continuous Operation Temp. (°C)</b>	<b>150</b>
<b>Avg. Viscosity(0.5 rpm, 24°C) (Brookfield DV-1, spindle CP51)</b>	<b>412,000 cp</b>

\* Properties given are typical values and not intended for use in preparing specifications. The user is advised to evaluate the product in the manner the product is intended to be used in manufacturing and in the final product.

**CURE SCHEDULES:**

<u>Temperature</u>	<u>Time</u>
Non-curing	

**SHELF LIFE:**

<u>Storage temperature</u>	<u>Shelf Life</u>
25°C	1 yr

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