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**COOL-GREASE  
 CGR7019**

**Non-Silicone Compound  
 Thixotropic, Nonmigrating  
 Highest Thermal Conductivity**

**IDEAL FOR:**

- Silicone Thermal Grease Replacement**
- Extreme Power Density Devices Interface to Heatsink**
- Extremely Large Gap to Thermal Ground Plane**

**DESCRIPTION:**

CGR7019 is a reworkable, diamond filled, electrically insulating and thermally conductive paste which exhibits outstanding thermal transfer in comparison to most adhesives. The non-curing nature of CGR7019 makes it ideal as an interfacial compound for thermal transfer for power devices and heat sinks. Diamond grease provides the lowest thermal resistance with its highest thermal conductivity.

CGR7019 is extremely thermally stable and has one of the lowest weight loss at elevated temperatures of all the thermal greases. It is highly thixotropic and stays in place once applied.

**AVAILABILITY:**

CGR7019 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\***

Electrical Resistivity	>1X10 <sup>13</sup> ohm-cm
Tensile Elongation (%)	Non-curing
Current Carrying Capability	Not Applicable
Cured Density (gm/cc)	2.5
Thermal Conductivity	70 Btu-in/hr-ft <sup>2</sup> -°F 10 W/m-°C
Linear Thermal Expansion Coeff. (ppm/°C)	Non-curing
Maximum Continuous Operation Temp. (°C)	150
Avg. Viscosity(0.5 rpm, 24°C)	500,000 cp

\* 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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