

8616

Super Thermal Grease II

8616 is a thermal compound with excellent thermal conductivity. This thermally conductive grease is designed to conform between irregular surfaces when compressed, reducing thermal resistance and improving heat flow.

This heat transfer grease is commonly applied to the interface between heat sinks and heat-generating components, such as LEDs, motors, CPUs, GPUs, and other power components.



Features & Benefits

- Silicone-free
- High dielectric strength
- Excellent corrosion resistance—passed ASTM B117 salt fog test (1 000 hours)
- Non-bleeding
- Non-electrically conductive
- Long service life

Storage and Handling

Store between 0 and 27 °C in a dry area, away from sunlight (see SDS).

Available Packaging

Part #	Package	Net Vol.	Net Wt.
8616-3ML	Syringe	3 mL	8.06 g
8616-25ML	Jar	25 mL	67.2 g
8616-85ML	Tube	86 mL	228 g
8616-1P	Jar	483 mL	1.30 kg
8616-1G	Pail	3.78 L	10.1 kg
8616-16.5L	Pail	16.5 L	44.3 kg

Properties

Color	White	—
Filler	Zinc oxide, alumina, boron nitride	—
Base Material	Synthetic oil	—
Density	2.6 g/mL	ASTM D1475
Viscosity @ 25 °C	365 Pa·s	Brookfield Engineering labs Inc. IPCTM-65- Method 2.4.24.4
Resistivity	$1.8 \times 10^{11} \Omega \cdot \text{cm}$	GUIDE ENG V02
Thermal Conductivity @ 25 °C	2.0 W/(m·K)	ASTM D2595
Evaporation Loss, 22 h @ 165 °C	1.2 %	ASTM D2595
Oil Separation, 30 h @ 165 °C	0.02 %	ASTM D6184
Worked Penetration, ½ scale	287	ASTM D1403
Water Washout @ 38 °C Bearing Dried @ 77 °C	0.9 %	ASTM D1264
Salt Spray Corrosion Resistance	Pass	—
Dielectric Strength	330 V/mi	—
Breakdown Voltage	16 kV	—
Dielectric Constant @ 1 000 cps	6.8	—
Dissipation Factor @ 1 000 cps	0.01	—
Service Temperature Range	-70–165 °C	—
Shelf Life	5 y	—

Disclaimer: This information is believed to be accurate. It is intended for professional end-users who have the skills required to evaluate and use the data properly. M.G. Chemicals Ltd. does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.

M.G. Chemicals 1210 Corporate Drive Burlington, Ontario, Canada L7L 5R6 ISO 9001:2015 Quality Management System SAI Global File: 004008 support@mgchemicals.com **North America** +(1) 800-340-0772 **International** +(1) 905-331-1396 **Europe** +44 1663 362888 09 September 2025 / Ver. 4.0