

MG Chemicals offers a full line of thermal pastes with a range of operating temperatures and thermal conductivities that enable the end-user to select the best thermal paste based on their needs. When placed between heat-generating components and heat sinks, a thermal paste displaces air pockets, which ensures full contact between the two surfaces, and prevents overheating

Features & Benefits

- High thermal conductivity
- Non-electrically conductive
- Excellent corrosion resistance
- Thixotropic, non-sagging
- Odorless

Applications

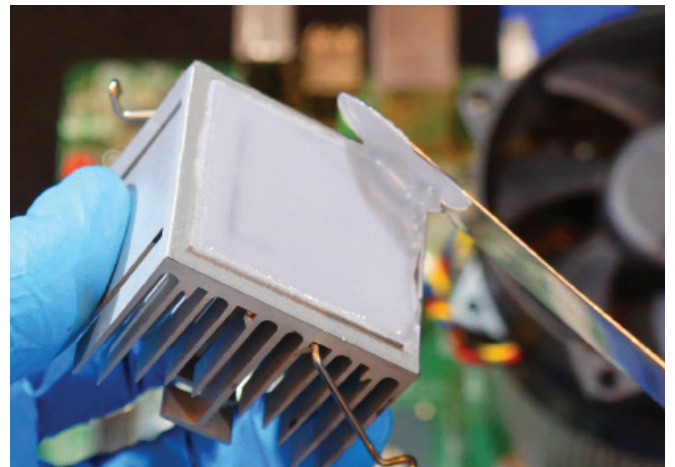
- Thermal management for computers and game system consoles
- Heat-dissipation for motors and LEDs

Silicone

- 860** • Service temperature range of -40 to 200 °C
- Thermal conductivity of 0.7 W/(m·K)

Silicone-Free

- 8616** • Service temperature range of -70 to 165 °C
- Thermal conductivity of 2.0 W/(m·K)
- 8617A** • Service temperature range of -50 to 125 °C
- Thermal conductivity of 3.0 W/(m·K)
- 8618** • Service temperature range of -50 to 125 °C
- Thermal conductivity of 6.0 W/(m·K)



Thermal Pastes



SILICONE

860

8616

SILICONE-FREE

8617A

8618

PROPERTIES

Color	White	White	White	Grey
Filler	Zinc oxide	Zinc oxide, alumina, boron nitride	—	—
Base Material	Silicone oil	Synthetic oil	Synthetic oil	Synthetic oil
Density	2.4 g/mL	2.6 g/mL	2.7 g/mL	2.4 g/mL
Viscosity	490 Pa·s	365 Pa·s	220 Pa·s	700 Pa·s
Resistivity	$1.5 \times 10^{15} \Omega\text{-cm}$	$1.8 \times 10^{11} \Omega\text{-cm}$	$10^{14} \Omega\text{-cm}$	$10^9 \Omega\text{-cm}$
Thermal Conductivity @ 25 °C	0.7 W/(m·K)	2.0 W/(m·K)	3.0 W/(m·K)	6.0 W/(m·K)
Dissipation Factor	0.003 @ 1 000 cps	0.01 @ 1 000 cps	0.017 @ 1 kHz	0.12 @ 1 kHz
Dielectric Constant	3.8 @ 1 000 cps	6.8 @ 1 000 cps	5–8 @ 1 kHz	18–24 @ 1 kHz
Flow Rate @ 25 psi, 14 gage tip	—	—	2–3 g/min	6–7 g/min
Service Temperature	-40 to 200 °C	-70 to 165 °C	-50 to 125 °C	-50 to 125 °C

AVAILABLE PACKAGING

Net contents	860-4G, 1.7 mL (Pouch)	8616-3ML, 3 mL (Syringe)	8617A-3ML, 3 mL (Syringe)	8618-3ML, 3 mL (Syringe)
	860-60G, 25 mL (Jar)	8616-25ML, 25 mL (Jar)	8617A-10ML, 10 mL (Syringe)	8618-10ML, 10 mL (Syringe)
	860-150G, 62.5 L (Tube)	8616-85ML, 86 L (Tube)	8617A-85ML, 85 mL (Tube)	8618-85ML, 85 mL (Tube)
	860-1P, 470 mL (Jar)	8616-1P, 483 mL (Jar)	8617A-300ML, 300 mL (Cartridge)	8618-300ML, 300 mL (Cartridge)
	860-3.78L, 3.78 L (Pail)	8616-1G, 3.78 L (Pail)		

