

Liquid Metal Thermal Grease

LMG4000 is a liquid metal-based thermal grease with highly thermally conductive fillers, designed to reduce thermal contact resistance between heat sources and heat sinks. It is suitable for applications requiring low bond line thickness, constant mounting pressure, and screen-printing compatibility.



Features & Benefits

- High Thermal Conductivity and Low Thermal Resistance
- Excellent Environmental Stability and Reliability
- Low Surface Energy for Easy Application
- High Thixotropy, Non-Slumping

Typical Applications

- IT: Laptops, Servers, Desktop Computers, Storage Modules
- Networking Equipment: Wireless Modules, Routers
- Consumer Electronics: Gaming Systems, Portable Devices
- Industrial: Power Supplies, LED Lighting, Industrial Control Equipment, etc.
- TIM 1.5 and TIM 2

Typical Properties		
Properties	Attribute	Test Method
Structure	Eutectic alloy, ceramic	N/A
Color	Silver	Visual
Electrical Insulation	No	N/A
Density (g/cc)	5.2	ASTM D792
Viscosity (Pa·s)	1000	GB/T10247-2008
Volatile Content (%)	<0.1	125°C, 48h
Usage Temperature (°C)	-40~150	/
Shelf Life (months)	6	Avoid compression and exposure to sunlight; store sealed
Thermal		
Thermal Conductivity (W/(m·K))	40	ASTM D5470
Thermal Resistance (°C·cm ² /W)	≤0.012	ASTM D5470 @50psi

Note: All data shown are typical values for reference only and should not be interpreted as a guarantee or as a substitute for user validation and qualification testing.



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Instructions for Use

- Ensure that both the heat source and heat sink surfaces are clean, dry, and free of any residues before application.
- Liquid metal exhibits high electrical conductivity; avoid direct contact with printed circuit boards or electronic components to prevent short circuits.
- Liquid metal may alloy with certain metals; avoid direct contact with untreated aluminum, copper, or similar materials.
- If the product has been stored or transported at low temperatures, it is recommended to warm it to at least 25 °C and stir thoroughly before use.

Precautions

- Do not ingest.
- Keep out of reach of children.
- Ensure correct application before use.
- For removal, wipe with alcohol wipes.

Transportation & Storage

- Transport and store at room temperature. Keep sealed, dry, and protected from light.
- Shelf life is 6 months from the date of packaging when stored unopened.

