



TIC[®]800M is a new type of phase change thermal conductivity product made by mixing multiple metals, designed specifically to solve heat dissipation problems and improve application reliability. This material has high thermal conductivity, is not easy to evaporate, is safe and non-toxic, and has stable physical and chemical properties. When the temperature is higher than its phase transition temperature, the material will soften and undergo phase transition, which can tightly fill the small irregular contact surfaces on the device surface, forming a low contact thermal resistance thermal interface, thereby achieving excellent heat dissipation effect.

Features

- » Excellent thermal conductivity
- » Non toxic, environmentally friendly, and safe, meeting RoHS requirements
- » Excellent long-term stability
- » Thoroughly fill the contact surface to create low thermal resistance
- » Not easily volatile

Applications

- » Microprocessor
- » Graphics processing chip
- » Set top box
- » LED TV and LED lighting fixtures
- » Notebook

Typical Properties of TIC[®]800M

Property	Value	Test Method
Color	Silvery White	Visual
Form	Flaky solid	Visual
Construction	Bismuth alloy	-
Density (g/cm ³) @25°C	8.0	ASTM D792
Thermal Conductivity (W/m·K) @25°C	18.9	ISO22007
Specific Heat Capacity (J/g·°C) @25°C	0.24	ASTM E1269
Resistivity (Ω·m)	< 10 ⁻⁴	ASTM D257
Phase Change Temperature Range (°C)	>60	ASTM D3418
Solidification Range (°C)	< 57	ASTM D3418
Recommended Operating Temperature (°C)	-40~250	-

Packaging:

TIC[®]800M can be packaged according to customer requirements.

Usage Instructions:

After using this material, it is recommended to use suitable foam or gaskets to enclose the edges of the phase change metal, ensuring that the material does not disperse or spread.

For more information about thermal conductive materials, please contact our company.

Global solutions: Local support

China: +86-769-38801208
Taiwan: +886-2-2277-1007
Canada: +001-604-2998559
Vietnam: +84-396852859

service@ziitek.com

www.ziitek.com

Ziitek Technology Ltd and its distributors provide information deemed accurate and reliable. However, product specifications may be adjusted due to technical modifications or optimizations without prior notice. The responsibility for product use and application lies with the end user. Ziitek makes no guarantees regarding the product's suitability, merchantability, or fitness for a particular purpose and assumes no liability for incidental or consequential damages. Ziitek and its logo are the property of the company or its affiliates.



TIC800M-0326