

## SilCool\* TIG1500

### Thermally Conductive Silicone Compound

SilCool TIG1500 is a silicone compound used in a wide variety of thermal interfaces to manage heat in electronic applications.

#### Key Features and Typical Benefits

- Excellent workability enabling automated dispensing, screen printing and stamping
- Low oil separation and minimal weight loss
- High heat stability under 200°C aging
- Low volatile content
- Extended retention of grease properties via low evaporation

#### Potential Applications

- Thermal Interface Material between heat spreaders and heat sinks (TIM2)
- Thermal management for power transistor, power IC, LSI systems home appliance products, LED lighting products, and general electronic devices

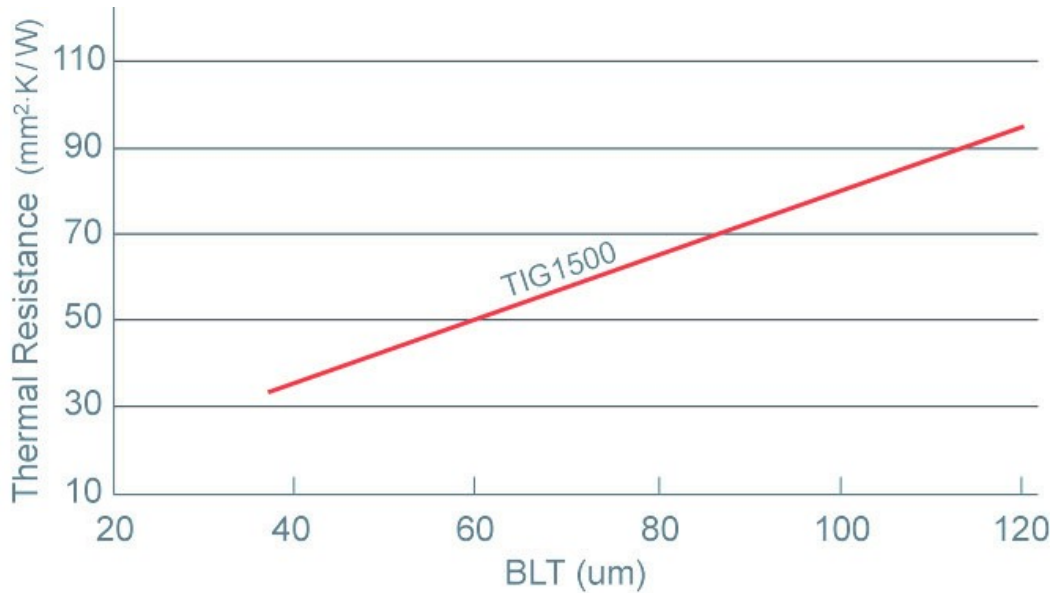
#### Typical Physical Properties

Property (23°C, 50%RH)		Value
Appearance		White Paste
Specific gravity	g/cm <sup>3</sup>	2.6
Unworked penetration <sup>*1</sup>		275
Viscosity (20 rpm)	Pa·s	110
Evaporation (150 °C, 24h)	wt%	≤0.4
Thermal conductivity <sup>*2</sup>	W/(m·K)	1.6
Thermal resistance <sup>*3</sup> (BLT : 34µm)	mm <sup>2</sup> ·K/W	35
Volume resistivity	Ω·cm	7.7x10 <sup>14</sup>
Dielectric strength	kV/0.25mm	2.8
Dielectric Constant (60Hz)		5.7
Dissipation Factor (60Hz)		0.009
Volatile siloxane (D <sub>4</sub> ~ D <sub>10</sub> )	ppm	<100

\*1: JIS K 2220 \*2: Hot wire method \*3: Laser flash method

Typical properties are average data and are not be used as or to develop specifications.

### Thermal Resistance



### Current Packaging

- 2kg can in case of 10

### Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

### Product Safety, Handling and Storage

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**Contact Information**

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For literature and technical assistance, visit our website at: [www.momentive.com](http://www.momentive.com)

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