



Technical Data Sheet



# SilCool\* TIG2000

## SilCool\* TIG2000

### Description

TIG2000 is a highly filled silicone oil compound featuring superior thermal conductivity, dielectric properties, excellent workability, virtually no oil separation and minimal weight loss at elevated temperatures, and helps solve the heat problems arising in the trends of higher frequency, integration and power in the development of electric and electronic devices.

### Typical Physical Properties

#### TYPICAL PROPERTY DATA

PROPERTIES		Pale blue paste
Appearance		Pale blue paste
Specific gravity (23°C)		2.8
Viscosity (23°C)	Pa·s (P)	110 (1,100)
Bleed (150°C, 24h)	wt%	0.1
Evaporation (150°C, 24h)	wt%	0.1
Thermal conductivity	W/(m·K)	2.0
Volume resistivity	MΩ·m (Ω·cm)	1×10 <sup>5</sup> (1×10 <sup>14</sup> )
Dielectric strength	kV/0.25mm	5.0
Volatile siloxane (D <sub>3</sub> -D <sub>10</sub> )	ppm	50

\*: JIS K 2220

Typical property data values should not be used as specifications. Assistance and specifications are available by contacting GE Toshiba Silicones Commercial Office.

### Key Features and Benefits

- Excellent workability enabling automated dispensing, screen printing and stamping applications
- Wide operating temperature range: -40°C to +150°C
- High thermal conductivity
- Low oil separation and minimal weight loss at elevated temperatures
- Minimal ionic impurities & excellent dielectric properties

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## Potential Applications

- Thermal Interface Material to secure heat path between heat spreaders and heat sinks(TIM2)
- Thermal management for power transistor, power IC and LSI systems and optical pickups
- Fixing thermistors and thermocouples on the measuring point Fixing thermistors and thermocouples on the measuring point

## Patent Status

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

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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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