

## SilCool™ TIG1000

### Description

Thermal conductive silicone grease. It has good thermal conductivity, dielectric properties, excellent workability and minimal weight loss at elevated temperatures.

### Key Features and Typical Benefits

- Good thermal conductivity
- Wide operating temperature range -40 °C to 170 °C
- Low volatility

### Typical Physical Properties

| <u>Property</u>                                      | <u>Unit</u> | <u>Value</u>          |
|--|-------------|-----------------------|
| Color  |             | White Paste           |
| Specific Gravity (25 °C)                             |             | 2.5                   |
| Penetration <sup>(1)</sup>                           |             | 340                   |
| Bleed <sup>(1)</sup> at 150 degC/24h                 | %           | 0.1                   |
| Evaporation <sup>(1)</sup> at 150 degC/24h           | %           | 0.1                   |
| Thermal conductivity                                 | W/m·K       | 1.00                  |
| Volume Resistivity <sup>(2)</sup>                    | MΩ·cm       | 3.0 x 10 <sup>6</sup> |
| Dielectric Constant (60Hz)                           |             | 5.0                   |
| Dissipation Factor (60Hz)                            |             | 0.006                 |
| Volatile Siloxane (D <sub>3</sub> -D <sub>10</sub> ) | ppm         | 30                    |

Typical properties are averaged data and should not be used as product specifications.

<sup>(1)</sup>JIS K 2220

<sup>(2)</sup>MIL-S-8660B

**Temperature Property Shift**

(JIS K 2220)

| Temperature     | Penetration | Bleed (%) | Evaporation (%) |
|-----------------|-------------|-----------|-----------------|
| Initial (25 °C) | 340         | 0.0       | 0.0             |
| 180 °C, 24h     | 335         | 0.0       | 0.2             |

Note: Test data. Actual results may vary.

**Patent Status**

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**Product Safety, Handling and Storage**

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at [www.momentive.com](http://www.momentive.com) or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

**Limitations**

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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