

SilCool™ TIG2000

Description

TIG2000 is a silicone grease compound featuring good thermal conductivity, dielectric properties, good workability, limited oil separation and minimal weight loss at elevated temperatures.

Key Features and Typical Benefits

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

Typical Physical Properties

(JIS K 2220)

| <u>Property</u> | <u>Unit</u> | <u>Value</u> |
|---|--------------|---|
| Appearance | | Pale blue paste |
| Specific gravity (23 °C) | | 2.8 |
| Viscosity (23 °C) | Pa•s{P} | 130 {1,300} |
| Bleed (150 °C, 24 hours) | wt% | 0.1 |
| Evaporation (150 °C, 24 hours) | wt% | 0.1 |
| Thermal conductivity | W/(m•K) | 2.0 |
| Volume resistivity | MΩ•m { Ω•cm} | 1.0 x 10 ⁶ {1.0 x 10 ¹⁴ } |
| Dielectric strength | kV/0.25mm | 5.0 |
| Volatile siloxane (D ₃ - D ₁₀) | ppm | 50 |

Typical property data values should not be used as or to develop product specifications.

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

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

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 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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