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)

<table>
<thead>
<tr>
<th>Property</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td></td>
<td>Pale blue paste</td>
</tr>
<tr>
<td>Specific gravity (23 °C)</td>
<td></td>
<td>2.8</td>
</tr>
<tr>
<td>Viscosity (23 °C)</td>
<td>Pa•s{P}</td>
<td>130 {1,300}</td>
</tr>
<tr>
<td>Bleed (150 °C, 24 hours)</td>
<td>wt%</td>
<td>0.1</td>
</tr>
<tr>
<td>Evaporation (150 °C, 24 hours)</td>
<td>wt%</td>
<td>0.1</td>
</tr>
<tr>
<td>Thermal conductivity</td>
<td>W/(m•K)</td>
<td>2.0</td>
</tr>
<tr>
<td>Volume resistivity</td>
<td>MΩ•m { Ω•cm}</td>
<td>1.0 x 10^6 {1.0 x 10^{14}}</td>
</tr>
<tr>
<td>Dielectric strength</td>
<td>kV/0.25mm</td>
<td>5.0</td>
</tr>
<tr>
<td>Volatile siloxane (D₃ - D₁₀)</td>
<td>ppm</td>
<td>50</td>
</tr>
</tbody>
</table>

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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**

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Contact Information
For product prices, availability, or order placement, contact our customer service at Momentive.com/CustomerService/

For literature and technical assistance, visit our website at: www.momentive.com

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