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 (D_3 - D_{10})</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**

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