SilCool* TIG210BX

Description
TIG210BX is a silicone compound that provides high thermal conductivity. It exhibits virtually no oil separation and minimal weight loss at elevated temperatures, which contributes to stability of the TIM interface under broad operational temperature ranges.

Key Features and Typical Benefits

- High thermal conductivity
- Low oil bleed and minimal weight loss at elevated temperatures
- Wide operating temperature range (-40 °C ~ 150 °C)
- Minimal ionic impurities

Typical Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td></td>
<td>Gray paste</td>
</tr>
<tr>
<td>Specific Gravity (23 °C)</td>
<td></td>
<td>2.9</td>
</tr>
<tr>
<td>Unworked Penetration (23 °C)</td>
<td></td>
<td>345</td>
</tr>
<tr>
<td>Viscosity (23°C)</td>
<td>Pa·s</td>
<td>250</td>
</tr>
<tr>
<td>Bleed (150°C, 24h)</td>
<td>wt%</td>
<td>0.0</td>
</tr>
<tr>
<td>Evaporation (150°C, 24h)</td>
<td>wt%</td>
<td>0.1</td>
</tr>
<tr>
<td>Thermal Conductivity (2)</td>
<td>W/m·K</td>
<td>2.1</td>
</tr>
<tr>
<td>Thermal Resistance (3) (BLT: 45µm)</td>
<td>mm²·K/W</td>
<td>20</td>
</tr>
<tr>
<td>Volume Resistivity</td>
<td>Ω·cm</td>
<td>1x10^{14}</td>
</tr>
<tr>
<td>Dielectric Strength</td>
<td>kV/0.25mm</td>
<td>3.0</td>
</tr>
<tr>
<td>Volatile Siloxane (D₃-D₁₀)</td>
<td>ppm</td>
<td>&lt;100</td>
</tr>
</tbody>
</table>

*SilCool is a trademark of Momentive Performance Materials Inc.
Typical physical properties are average data and should not be used as or to develop product specifications.

(1) JIS K 2220
(2) Hot wire method
(3) Laser flash method

<table>
<thead>
<tr>
<th>Ionic Content ppm</th>
<th>Na⁺</th>
<th>2.0</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>K⁺</td>
<td>0.0</td>
</tr>
<tr>
<td></td>
<td>Cl⁻</td>
<td>0.0</td>
</tr>
</tbody>
</table>

Potential Applications

- Thermal Interface Material between heat spreaders and heat sinks, heat pipes (TIM2)

Packaging

- 1kg can available in cases of 10
- 2kg bottle available in cases of 10

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

- Wear eye protection and protective gloves as required while handling the product.
- Use the product in a well ventilated area.
- Store in a dark, cool place out of direct sunlight.
- Keep out of reach of children.

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.

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

DISCLAIMER:

THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE
MATERIALS INC. AND ITS SUBSIDIARIES AND AFFILIATES (COLLECTIVELY
“SUPPLIER”), ARE SOLD SUBJECT TO SUPPLIER’S STANDARD CONDITIONS
OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR
OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER
ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST.
ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED
HEREIN IS GIVEN IN GOOD FAITH, SUPPLIER MAKES NO WARRANTY OR
GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED
HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE
EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS
PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE.
EXCEPT AS PROVIDED IN SUPPLIER’S STANDARD CONDITIONS OF SALE,

*SilCool is a trademark of Momentive Performance Materials Inc.
SUPPLIER AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN. Each user bears full responsibility for making its own determination as to the suitability of Supplier’s materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Supplier’s products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Supplier’s standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Supplier. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Supplier covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.

*SilCool is a trademark of Momentive Performance Materials Inc.

Momentive and the Momentive logo are trademarks of Momentive Performance Materials Inc.