

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

| Property | Unit | Value |
|--|----------------------|--------------------|
| Appearance | | Gray paste |
| Specific Gravity (23 °C) | | 2.9 |
| Unworked Penetration ⁽¹⁾ (23 °C) | | 345 |
| Viscosity (23°C) | Pa•s | 250 |
| Bleed (150°C, 24h) | wt% | 0.0 |
| Evaporation (150°C, 24h) | wt% | 0.1 |
| Thermal Conductivity ⁽²⁾ | W/m•K | 2.1 |
| Thermal Resistance ⁽³⁾ (BLT: 45µm) | mm ² •K/W | 20 |
| Volume Resistivity | Ω•cm | 1x10 ¹⁴ |
| Dielectric Strength | kV/0.25mm | 3.0 |
| Volatile Siloxane (D ₃ -D ₁₀) | ppm | <100 |

| | | |
|-------------------|-----|-----|
| Ionic Content ppm | Na+ | 2.0 |
| | K+ | 0.0 |
| | Cl- | 0.0 |

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

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.

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

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