



**MOMENTIVE**  
performance materials

The science behind the solutions.

# SilCool\* Series TIG300BX

## Thermally Conductive Silicone Grease

### Product Description

TIG300BX is a low-bleed silicone compound that can provide high thermal conductivity. It exhibits virtually no oil separation and minimal weight loss at elevated temperatures, which contributes to the 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

Properties		
Appearance		Gray paste
Specific Gravity (23°C)		3.00
Unworked Penetration <sup>(1)</sup> (23°C)		350
Viscosity (23°C)	Pa·s	200
Bleed (150°C, 24h)	wt%	0.0
Evaporation (150°C, 24h)	wt%	0.1
Thermal Conductivity <sup>(2)</sup>	W/m·K	3.0
Thermal Resistance <sup>(3)</sup> (BLT: 45µm)	mm <sup>2</sup> ·K/W	20
Volume Resistivity	Ω·cm	5x10 <sup>11</sup>
Dielectric Strength	kV/0.25mm	5.0
Volatile Siloxane (D <sub>3</sub> -D <sub>10</sub> )	ppm	<100
Ionic Content ppm	Na <sup>+</sup>	1.0
	K <sup>+</sup>	0.3
	Cl <sup>-</sup>	0.3

(1) JIS K 2220

(2) Hot wire method

(3) Laser flash method

Typical property data values should not be used as specifications.

\*SilCool is a trademark of Momentive Performance Materials Inc.

Momentive Performance Materials provides versatile materials as the starting point for our creative approach to ideas that help enable new developments across hundreds of industrial and consumer applications. We are helping customers

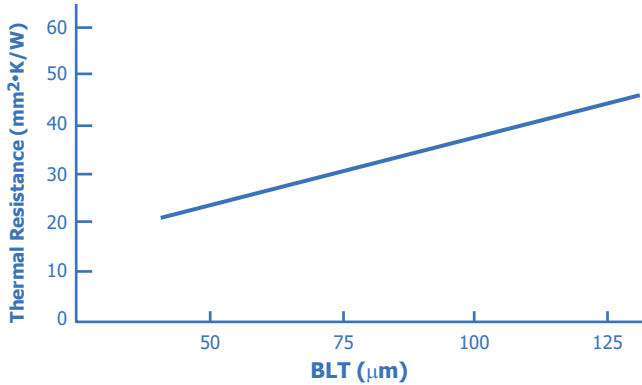
solve product, process, and performance problems; our silanes, fluids, elastomers, sealants, resins, adhesives, urethane additives, and other specialty products are delivering innovation in everything from car engines to biomedical devices.

From helping to develop safer tires and keeping electronics cooler, to improving the feel of lipstick and ensuring the reliability of adhesives, our technologies and enabling solutions are at the frontline of innovation.

## Potential Applications

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

## Typical Thermal Resistance and BLT



Note: Test data. Actual results may vary.

## 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 considering the use of this product should review the latest Material Safety Data Sheet and label for product safety information, handling instructions, personal protective equipment if necessary, and any special storage conditions required. Material Safety Data Sheets are available at [www.momentive.com](http://www.momentive.com) or, upon request, from any Momentive Performance Materials representative. Use of other materials in conjunction with Momentive Performance Materials 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.

## SilCool\* Series TIG300BX Thermally Conductive Silicone Grease

### Emergency Service

Momentive Performance Materials maintains an around-the-clock emergency service for its products. The American Chemistry Council (CHEMTREC) and CareChem24 International also maintain an around-the-clock emergency service for all chemical products:

Location	Momentive Performance Materials Products	All Chemical Products
Mainland U.S., Puerto Rico	518.233.2500	CHEMTREC: 800.424.9300
Alaska, Hawaii	518.233.2500	CHEMTREC: 800.424.9300
Canada	518.233.2500	CHEMTREC: 800.424.9300
Europe	+518.233.2500 (Albanian, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Lithuanian, Norwegian, Polish, Portuguese, Romanian, Russian, Serbo-Croatian, Slovak, Spanish, Swedish, Turkish, Ukrainian)	+44.(0)208.762.8322 (UK)
Middle East, All countries, except Israel	+518.233.2500	+961.3.487.287 (Lebanon)
Middle East, Israel	+518.233.2500	+44.(0)208.762.8322 (UK)
Latin America, Asia/Pacific, all other locations worldwide	+518.233.2500	CHEMTREC: +1-703.527.3887 (collect)
At sea	Radio U.S. Coast Guard, which can directly contact Momentive Performance Materials at 518.233.2500 or CHEMTREC at 800.424.9300.	

DO NOT WAIT. Phone if in doubt. You will be referred to a specialist for advice.

## CUSTOMER SERVICE CENTERS

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