

## SilCool™ TIG830SP

### Description

TIG830SP is a silicone grease that provides high thermal conductivity and low thermal resistance. The workability of TIG830SP makes it a good candidate for screen-printing and dispensing processes, and its thermal performance contributes to help solving heat dissipation challenges in a variety of electronic components and designs.

### Key Features and Typical Benefits

- High thermal conductivity
- Low thermal resistance
- Thin bond lines
- Highly workable - excels in screen-printing and dispensing processes
- Wide operating temperature range (-40 °C ~ 150 °C)
- Minimal weight loss at elevated temperatures
- Minimal ionic impurities

### Typical Physical Properties

<u>Property</u>	<u>Unit</u>	<u>Value</u>
Color		Gray paste
Thermal conductivity <sup>(2)</sup>	W/m·k	4.1
Viscosity (23 °C)	Pa·s	300
Penetration <sup>(3)</sup> (23 °C)		360
Specific Gravity (23 °C)		2.88
Bleed (150 °C, 24h)	wt%	0.0
Evaporation (150 °C, 24h)	wt%	0.3
Thermal Resistance <sup>(1)</sup> (BLT 20 µm)	mm <sup>2</sup> ·k/w	12
Volatile Siloxane (D <sub>4</sub> -D <sub>10</sub> )	ppm	<100

Ionic Content (ppm)	Na <sup>+</sup>	0.5
	K <sup>+</sup>	0.0
	Cl <sup>-</sup>	0.1

Typical properties are average data and should not be used as or to develop product specifications.

(<sup>1</sup>)Laser Lash analysis (<sup>2</sup>)Hot wire method (<sup>3</sup>)JIS K 2220

## 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 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](http://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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