

LOCTITE SI 100

January 2014

PRODUCT DESCRIPTION

LOCTITE SI 100 provides the following product characteristics:

Technology	Silicone grease
Appearance	gray
Application	Thermal management
Typical Assembly Applications	CPUs, GPUs, MCUs, ASICs, DC-DC converters, IGBT and Transistors
Operating Temperature	-40 to 150 °C

LOCTITE SI 100 is recommended for high-temperature heat transfer in normal applications. It is used between heat generating devices and the surfaces to which they are mounted or other heat dissipating surfaces. This product delivers excellent thermal resistance, offers high thermal conductivity and virtually no evaporation over a wide operating temperature range. It is nonflammable, oxidation resistant and does not promote rust or corrosion.

TYPICAL PROPERTIES

Viscosity, Cone & Plate, mPa·s (cP):	
Temperature: 25 °C, Shear Rate: 0.5 s ⁻¹	350,000
Specific Gravity @ 25 °C	1.94
Thermal Conductivity, W/(m·K)	3.4
Thermal Impedance ASTM-D-5470, °C.in ² /W: 80psi	0.017

GENERAL INFORMATION

For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).

DIRECTIONS FOR USE

1. For best results parts to be covered should be clean and free of oil and debris.
2. Apply appropriate material to substrate so that there is enough material to cover 100% of the surface between the component and the heat sink and the material leaves a small fillet.
3. Place the heat sink on top of the component and secure with clips, screws or other hardware.

Storage

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal Storage: 5°C to 30°C. Storage below 5°C or greater than 30°C can adversely affect product properties.

Material removed from containers may be contaminated during

use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.

Conversions

(°C x 1.8) + 32 = °F
kV/mm x 25.4 = V/mil
mm / 25.4 = inches
N x 0.225 = lb
N/mm x 5.71 = lb/in
N/mm ² x 145 = psi
MPa = N/mm ²
MPa x 145 = psi
N·m x 8.851 = lb·in
N·m x 0.738 = lb·ft
N·mm x 0.142 = oz·in
mPa·s = cP

Disclaimer

Note:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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