



ISO-9001-2015 Certified

718 Park East Drive, Woonsocket, RI 02895, USA
Phone: (401) 726-4500
Email: info@epoxyset.com ■ Web: www.epoxyset.com

TECHNICAL BULLETIN

STG-53A SILICONE THERMAL GREASE

STG-53A is silicone-based thermal grease used to insure quick efficient heat transfer and dissipation. This material will not dry, harden or melt in normal industrial use and provides long-term material stability. It can be used for mounting semiconductor devices, power transistors, and diodes; coupling heat generating assemblies to chassis; heat transfer medium on ballast; thermal joints; and many electronics, automotive and electrical applications.

TYPICAL PROPERTIES:

Color	White Paste
Specific Gravity	2.4
Flow Rate, grams/min.	2-20
Bleed, @200°C, 24 hrs. %/Wt	0.75
Evaporation, @ 200°C, 24 hrs, %/Wt	0.1
Thermal Conductivity, W/m°K	0.8
Dielectric Strength kV/mm	15
Dielectric Constant, 1 kHz	4.9
Dissipation Factor, 1 kHz	0.0011
Volume Resistivity, ohm-cm	1.9x10 ¹⁵
Operating service temperature range	-55°C to 205°C

FOR INDUSTRIAL USE ONLY:

These materials are intended for industrial use only, and the practices of good housekeeping, safety and cleanliness should be followed before, during and after use.

WARNING!

Although the system contains low volatility materials, care should be taken in handling. Adequate ventilation of work place and ovens is essential. In case of skin contact, wash thoroughly with soap and water. For eyes, flush immediately with plenty of water for at least 10 minutes and seek medical attention. Refer to Material Safety Data Sheet for additional health and safety information.

SHELF LIFE:

The shelf life of these materials is 12 months when stored in unopened containers at an average temperature of 25°C.

DISCLAIMER: All data given here is offered as a guide to the use of these materials and not as a guarantee of their performance. The user should evaluate their suitability for own purposes. Properties are typical and should not be used in preparing specifications. Statements are not to be construed as recommendations to infringe any patent.