



ISO-9001-2015 Certified

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TECHNICAL BULLETIN

STG-41

SILICONE THERMAL GREASE

STG-41 is a non-reactive, silicone thermal grease with a high thermal conductivity and low thermal resistance with a soft, non-flowable consistency. This product is formulated with specialty binding agents to achieve lowest amount of bleed and evaporations. It is designed for applications where a silicone thermal interface material is required and where the device may later need to be easily removed from the heat sink. This compound is ideally suited for use in thin cross-sectional thicknesses down to ≤ 1 mil.

TYPICAL PROPERTIES:

Color	White
Specific Gravity	2.5
Viscosity, 25°C, Pa·S	140-150
Evaporation, @ 200°C, 24 hrs, %/Wt	0.32
Bleed @ 200°C, 24 hrs, %/Wt	0.05
Operating Temperature Range	-55°C to 205°C
Thermal Conductivity, W/m-°K	0.8
Thermal Resistance, °C-in ² /W	0.05
Breakdown Voltage, kV/mm	15
Dielectric Constant, 1 kHz	4.5
Dissipation Factor, 1 kHz	0.0021
Volume Resistivity, ohm-cm	1.0x10 ¹⁴

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 from DOM 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.