



SILICONE THERMAL GREASE

STG – Silicone based thermally conductive grease compounds specifically formulated with binding agents and highly conductive ceramic fillers to stop bleed and separations and to deliver **low Thermal resistance (0.014 °C-in²/W)** and **very high Thermal Conductivity (3.7 W/m, °K)** than films, pads, or thermoplastics. Excellent wetting and spread-ability makes it the best choice for thin bond film applications.

PRODUCT		STG-40	STG-41	STG-42	STG-43	STG-44
Consistency		Thixotropic Paste				
Specific Gravity	@25°C	2.2	2.5	2.2	2.0	1.7
Color		White	White	Gray	Black	Black
Evaporation @200°C, 24 hrs	% WT	0.4	0.6	0.6	0.2	0.2
Thermal Conductivity	W/m °K	0.8	2.0	2.7	2.7	3.7
Thermal Resistance	°C-in ² /W	0.05	0.025	0.018	0.018	0.014
Dielectric Strength (ASTM D150) 0.05" gap	V/mil	390	410	405	310	335
Volume Resistivity (ASTM D257)	Ohm-cm	2.6x10 ¹⁴	2.2x10 ¹⁴	2.6x10 ¹⁴	3.8x10 ¹²	5.8x10 ¹²
Operating Temperature Range		-55°C to 205°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.