

**GOVERNMENT APPROVED,  
THERMALLY CONDUCTIVE. SILICONE COMPOUND**

Technical Bulletin # 3126

## Product Description

Insulgrease SG 841 is an oxide filled silicone base compound. It is well suited for use in heat transfer/thermal management applications in both electrical and electronic components. Insulgrease SG 841 is very similar to Insulgrease SG 741 except for a smaller temperature use range of -100°F to 400°F. It exhibits excellent hydrolytic stability, low toxicity and is also chemically inert. In addition to this, it is a non-corrosive material and provides very good adherence. Insulgrease SG 841 meets MIL-C-47113D Type I (25 September 2001) and is government approved. It also meets the previous versions including A-A-56022 (19 October 1992)

## Properties

Color, visual:	Opaque White
Bleed, % 24hours @ 200°C	1.0 max
Evaporation, % 24hours @ 200°C	2 max
Specific Gravity, gm/cc	2.6
Dielectric Strength, volts/mil, 0.010"	500
Dielectric Constant @100Hz	4.4
Volume Resistivity, ohm-cm:	1 x 10 <sup>14</sup>
Thermal Conductivity, Cal (g)-cm/sec-cm <sup>2</sup> -°C	1.5 x 10 <sup>-3</sup>
Thermal Conductivity BTU-ft/hr-ft <sup>2</sup> -°F	0.363
Thermal Conductivity BTU-in/hr-ft <sup>2</sup> -°F	4.35
Dissipation Factor, 1000 Hz	0.005

## Use Instructions

Insulgrease SG 841 may be wiped on or applied with the appropriate dispensing equipment. It may also be applied by spraying, dip coating or brushing when dispersed in a non-polar solvent such as mineral spirits for easier application.

**Date** 02/2010

### IMPORTANT:

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### HEALTH CAUTION:

Avoid breathing possible fumes, mists and vapors which can cause severe respiratory damage. Use of NIOSH approved breathing apparatus is required for more than minimal exposure. Always work in areas with adequate ventilation to allow dissipation of polyamine and other chemical fumes, and where applicable, solvent fumes. Use of goggles, protective garments, rubber gloves, protective cream is required. If material gets into eyes, flush thoroughly with clean water for twenty (20) minutes; then seek medical treatment. Avoid skin contact. Material can cause contact dermatitis. Always wash exposed areas immediately, using warm water and soap, followed by rinsing with clean water. Observe all safety precautions. It is important when using solvent based materials or solvents to keep away from open flame or ignition source.

**PLEASE REFER TO MATERIAL SAFETY DATA SHEET FOR FURTHER FIRST AID INFORMATION. FOR CHEMICAL EMERGENCY, CALL CHEMTREC (DAY OR NIGHT) 800 424-9300.**