

SILICONE COMPOUND

Technical Bulletin # 3125

Product Description

Insulgrease SG 111 is a heavy consistency, non-toxic, grease-like compound based on a thickened silicone fluid. SG 111 is chemically inert and is designed as a valve lubricant and sealant that provides a non-curing moisture barrier. Other applications include being used as a sealant for outdoor equipment, including shipboard applications that are subject to harsh environmental exposure. It also works well as a chemical barrier coating, a damping medium for dash pots, and as a lubricant on gaskets, seals and O-rings. As it is a silicone, the change in its viscosity over a broad temperature range of -40 to 400°F is very low, thus preventing run-off or stiffening to the point where the product is unusable. Insulgrease SG 111 is non-corrosive and oxidation resistant. With high dielectric strength and good hydrolytic stability, it is also water repellent and radiation resistant. Insulgrease SG 111 is also suitable for incidental food contact under FDA Regulation 21 CFR 175.300.

Properties

Color, visual:	Translucent
Bleed, % 24hours @ 200°C	0.5 max
Evaporation, % 24hours @ 200°C	2 max
Specific Gravity, gm/cc	1.1
Temperature Range, °F	- 40 to +400
Unworked Penetration, mm	175 to 210
Worked Penetration, mm	220 to 260
Dielectric Strength, volts/mil	400
Dielectric Constant @100Hz	2.82
Volume Resistivity, ohm-cm:	1 x 10 ¹⁵
Shelf Life, months	24

Use Instructions

Insulgrease SG 111 may be diluted with non-polar solvents for easier application. However, caution must be observed since even small amounts of solvent may affect the lubrication performance in high speed gears or bearings. Clean-up any spills with non-polar solvents such as mineral spirits.

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.