



TECHNICAL BULLETIN #3124 – INSULGREASE SG 146LV SEMI-TRANSPARENT SILICONE COMPOUND

Revised: 11/2019

PRODUCT DESCRIPTION

Insulgrease SG146LV is a soft non-toxic, grease-like compound based on a thickened silicone fluid. Insulgrease SG 146LV is chemically inert and is useful as a release agent and offers excellent lubrication on plastic and rubber surfaces. While not designed for bearing surfaces under heavy loads, it will provide good results for light loads. 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 runoff or stiffening to the point of unusability. Insulgrease SG 146LV is non corrosive and oxidation resistant. With high dielectric strength and good hydrolytic stability, it is also water repellent and radiation resistant.

Insulgrease SG 146LV complies with the ANSI/NSF Standard 61 for drinking water system components. The material also meets FDA requirements for food contact uses under 21 CFR 175.300.

PROPERTIES UNCURED

COLOR, VISUAL	Semi Transparent
BLEED, %	5 max.
EVAPORATION, %	3 max.
SPECIFIC GRAVITY, gm/cc	1.03
TEMPERATURE RANGE, °F	-40 to +450
WORKED PENETRATION, 1/10 mm	310 to 380
DIELECTRIC STRENGTH, volts/mil	450
DIELECTRIC CONSTANT, KHz	2.9
VOLUME RESISTIVITY, ohm-cm	1x10 ¹⁴

USE INSTRUCTIONS

Insulgrease SG 146LV may be diluted with non-polar solvents for easier application. However, caution must be observed since 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.

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.

