

Technical Data

Everlube® Products

U.S.A. 1-800-428-7802 · 1-770-261-4800
Europe 44 (0)1386 421444
www.everlubeproducts.com

Everlube® 967

MoS₂, Solid Film Lubricants

Product Description

Everlube 967 is a thermally cured, MoS₂ based solid film lubricant with a polyimide binder system. This coating is specifically designed to provide lubrication in higher temperature applications. Everlube 967 also provides very good chemical resistance, abrasion resistance, and performs best in higher load carrying applications. Everlube 967 is sold to the following specifications; AS 1701 Type III, GE's A50TF303 and A50TF291.

Features / Benefits

- Very good thermal stability
- Very good chemical resistance
- Very good abrasion resistance
- Ideal for higher load carrying applications

Markets

- Industrial Machinery & Equipment
- Mechanical Components
- Aerospace/Defense
- Fabricated Metal Parts

Typical Applications

- Bearings, cams, splines and shafts
- Threaded connectors and disconnects
- Bolts, nuts, and pins
- Bushings, shafts, rods and plates

Physical Properties

Lubricating Solid:	MoS ₂
Binder:	Polyimide
Color and Appearance:*	Dark Gray/Blackish Matte Finish
Carrier:	Solvent Based
Solids (by weight):*	38 to 42%
Density:*	10.6 ± 0.5 lb/gal (1270 ± 60 grams/liter)
Flash Point:	45°F (7°C)
Volatile Organic Compound:	907 grams/liter (7.56 lb/gal)
Theoretical Coverage: ¹	535 ft ² /gal @ 0.5 mils (13.1 m ² /liter @ 12.7 microns)
Alternative or Repair Coatings:	A low VOC alternative coating for Everlube 967 is our Everlube 812. For touch-up applications, Perma-Slik RMAC works well with Everlube 967.

Processing Information²

Dry Film Thickness	0.3 to 0.7 mils (8 to 18 microns)
Dilution / Cleanup Solvent: ²	50/50 blend of N-Methyl-2-Pyrrolidone (NMP) and Cyclohexanone or 900 S
Dilution Ratio:	Concentrated to 1:1 (Product to Solvent)
Cure Cycle: ²	1 hr. at 150 °F to 250°F, then 1 hr at 500 °F +/- 25°F
Suggested Pretreatment:	Grit Blast
Suggested Application Methods:	Dip Spin <input type="checkbox"/> Spray <input checked="" type="checkbox"/>

For additional information, please see Processing Bulletin # 3000-A

This document is for technical reference only and is not intended for use in developing a specification. Specification writers should contact Technical Director of Research and Development. This information supplied is presented in good faith and has been derived from sources believed to be reliable. Since conditions of use are beyond our control, all risks are assumed by the user.

Typical Functional Properties

	<u>ASTM Test Method</u>	<u>Value</u>
Corrosion Resistance		
Test Panel	ASTM B117	< 100 hrs. @ 5% Neutral Salt Spray
Test Panel Coating Method		0.5 mil on grit blasted steel panel
Abrasion Resistance	ASTM D4060	Very good
Coefficient of Friction	ASTM D2714	.04 - .06
Operating Temperature Range		-300° to 600°F (-184° to 316°C)
Load Carrying Capacity	ASTM 2625, Method B	> 250,000 psi
Wear Life	ASTM 2625, Method A	300 minutes avg.

Chemical Resistance (ASTM D-2510, Method C)

Isopropyl Alcohol or Ethyl Alcohol	Pass	Diethanolamine	Pass
Mineral Spirits or Paint Thinner	Pass	Hydrochloric Acid (10%)	Pass
Toluene	Pass	Sodium Hydroxide (10%)	Pass
Acetone	Pass	Distilled Water	Pass
Skydrol 500:	Pass	Jet Fuels (JP-4):	Pass
Hydraulic Fluids:	Pass	Trichloroethylene:	Pass
Anti-Icing Fluids:	Pass		

Note: Chemical Resistance may vary depending on the cure cycle. N/R = Not Recommended

Additional Information

Shelf Life One year from date of shipment, stored in a factory sealed container between the and temperatures, 40° to 90°F. Coatings are thermally stable, but we do not recommend Storage: prolonged exposure outside of the specified temperature range listed above.

Packaging: Everlube® 967 is available in Gallon, Quart

Warranty: No representation or warranty is expressed or implied and all warranties including warranties of marketability and fitness for use are expressly disclaimed. Nothing herein shall be construed as permission or recommendation to practice a patented invention without a license.

* These Test are performed on each production lot.

¹ Based on 100% transfer efficiency at a dry film thickness of 0.001 inch (25 microns).

² Contact Technical Services for additional options.

³ Specific chemical tested per the specification requirements.

Issue Date: 10/31/02, Latest Revision Date: 10/16/03

This document is for technical reference only and is not intended for use in developing a specification. Specification writers should contact Technical Director of Research and Development. This information supplied is presented in good faith and has been derived from sources believed to be reliable. Since conditions of use are beyond our control, all risks are assumed by the user.