

Technical Data

Everlube® Products

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Everlube® 969

Graphite, Solid Film Lubricant

Product Description

Everlube 969 is a Polyamide-imide which utilizes soft metals as silver, indium, tin and bismuth. This coating is specifically designed to provide superior wear performance when used in the presence of conventional lubricants such as fuels, oils, greases or other fluid environments. Everlube 969 also offers very good thermal stability and good chemical resistance.

Features / Benefits

- Provides lubrication in wet environments
- Good thermal stability
- Lead free
- Good chemical resistance

Markets

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

Typical Applications

- Gears and splines
- Pistons
- Bearings and cams
- fuel pump components

Physical Properties

Lubricating Solid:	Soft metals
Binder:	Polyamide-imide
Color and Appearance:*	Matte Dark Gray Finish
Carrier:	Solvent Borne
Solids (by weight):*	24% to 28%
Density:*	9.5 ± 0.5 lb/gal (1138 ± 60 grams/liter)
Flash Point:	80°F (27°C)
Volatile Organic Compound:	844 grams/liter (7.04 lb/gal)
Theoretical Coverage: ¹	491 ft ² /gal @ 0.5 mils (12 m ² /liter @ 12.7 microns)
Alternative or Repair Coatings:	

Processing Information²

Dry Film Thickness	0.2 to 0.6 mils (5 to 15 microns)
Dilution / Cleanup Solvent: ²	N-Methyl-2-Pyrrolidone (NMP) , 50/50 NMP/Cyclohexanone or 900 solvent
Dilution Ratio:	Concentrate to 3:1 (Product to Solvent)
Cure Cycle: ²	20 min. @ 200 °F and 1 hr. @ 400 °F to 450 °F
Suggested Pretreatment:	Grit Blast and/or Phosphate
Suggested Application Methods:	Dip Spin <input type="checkbox"/> Spray <input checked="" type="checkbox"/>

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

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Typical Functional Properties

	<u>ASTM Test Method</u>	<u>Value</u>
Corrosion Resistance		
Test Panel	ASTM B117	< 72 hrs. @ 5% Neutral Salt Spray
Test Panel Coating Method		0.5 mil on grit blasted steel panel
Abrasion Resistance	ASTM D4060	Fair
Coefficient of Friction	ASTM D2714	.04 - .06
Operating Temperature Range		-100° to 600°F (-73° to 316°C)
Load Carrying Capacity	ASTM D-2714	< 40,000 psi
Wear Life	ASTM 2625, Method A	< 30 min.
Adhesion	ASTM D-3359	Pass

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

Packaging: Everlube® 969 is available in Quart, Quart, 5-Gallon Pail, Gallon

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.

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