

Technical Data

Everlube[®] 968

Powdered Metal, Solid Film Lubricant

**CURTISS -
WRIGHT**

Everlube[®] Products

Surface Technologies Division

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Product Description

Everlube 968 is a graphite/tin/bismuth based solid film lubricant with a polyamide-imide binder system. This coating is specifically designed to prevent metal to metal contact when used in presence of conventional lubricants such as fuels, oils, greases, or other fluid environments. Everlube 968 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:	Graphite, tin, bismuth
Binder:	Polyamide-imide
Color and Appearance:*	Matte dark gray finish
Carrier:	Solvent borne
Solids (by weight):*	23% to 29%
Density:*	9.6 ± 0.5 lb/gal (1150 ± 60 grams/liter)
Flash Point:	80°F (27°C)
Volatile organic compound	852 grams/liter (7.11 lb/gal)
Theoretical Coverage: ¹	462 ft ² /gal @ 0.5 mils (11.3 m ² /liter @ 12.7 microns)

Processing Information

Dry film thickness	0.2 to 0.6 mils (5 to 15 microns)
Dilution / Cleanup solvent:	N-Methyl-2-Pyrrolidone (NMP), 50/50 NMP/Cyclohexanone or 900 solvent
Dilution Ratio:	Concentrate to 3:1 (product to solvent)
Cure Cycle:	20 min. @ 200°F and 1 hr. @ 400°F to 450°F
Suggested pretreatment:	Grit blast and/or phosphate
Suggested application methods:	Spray

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

Typical Functional Properties

	<u>ASTM Test Method</u>	<u>Value</u>
Corrosion Resistance		
Test Panel	ASTM B-117	<72 hrs. @ 5% neutral salt spray
Test Panel Coating Method		0.5 mil on grit blasted steel panel
Abrasion Resistance	ASTM D-4060	Fair
Coefficient of Friction	ASTM D-2714	.04 to .06
Operating Temperature Range		-100°F to 600°F (-73°C to 316°C)
Load Carrying Capacity	ASTM 2714	>40,000 psi
Wear Life	ASTM 2625, Method A	>30 minutes
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°F to 100°F. Coatings are thermally stable, but we do not recommend prolonged exposure outside of the specified temperature range listed above

Packaging: Everlube 968 is available is gallon, 5-gallon pail, and 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 tests are performed on each production lot

¹ Based on 100% transfer efficiency at a dry film thickness of 0.0005 inch (12.5 microns).

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