

Everlube® 9002**Water Based, MoS₂ Solid Film Lubricant****Everlube® Products**

Surface Technologies Division

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Product Description

Everlube 9002 is a low VOC MoS₂ based solid film lubricant with a high molecular weight epoxy binder system. This coating provides excellent wear life, abrasion resistance, good chemical resistance, and performs the best in higher load carrying applications. Everlube 9002 is approved/qualified to many aerospace and industrial specification; approvals can be verified at <http://www.everlubeproducts.com/specifications.php>. When requesting pricing or ordering of product, listing of the specification and revision is required to assure product/certification compliance.

Features / Benefits

- Excellent wear life
- Excellent abrasion resistance
- Very good chemical resistance
- Lead free

Markets

- Aerospace/Defense
- Industrial machinery and equipment
- Mechanical components
- Fasteners

Typical Applications

- Virtually all fasteners
- Bearings and cams
- Gears and spines
- Engine ring seals

Physical Properties

Lubricating Solids:	MoS ₂
Binder:	High molecular weight epoxy
Color and Appearance:*	Gray/dark gray matte finish
Carrier:	Water based
Solids (by weight):*	40% to 44%
Density:*	10.9 ± 0.5 lb/gal (1270 ± 60 grams/liter)
Flash Point:	>200°F (93°C)
Volatile Organic Compound:	183 grams/liter (1.52 lb/gal)
Theoretical Coverage: ¹	698 ft ² /gal @ 0.5 mils (17.1 m ² /liter @ 12.7 microns)
Alternative or Repair Coatings:	Solvent based equivalents for Everlube 9002 are our Everlube 620C, Lube Lok 5306, and Everlube 731. For touch-up applications, Perma-Slik® G or Lubri-Bond® 220 works well with Everlube 9002.

Processing Information

Dry Film Thickness	0.2 to 0.5 mils (5 to 13 microns)
Dilution/Cleanup Solvent:	May be thinned with deionized water less than 10% by volume
Dilution Ratio:	0 to 9:1 (product to diluent)
Cure Cycle:	1 hr. ± 15 min. @ 400°F (recommended) or 2 hrs @ 300°F (for substrates that cannot take recommended cure.
Suggested Pretreatment:	Grit blast and/or phosphate
Suggested application Methods:	Dip spin, brush or spray

For additional information, please see Processing Bulletin #3001-A

Typical Functional Properties

	<u>ASTM Test Method</u>	<u>Value</u>
Corrosion Resistance		
Test Panel	ASTM B-117	>100 hrs. @ 5% neutral salt spray
Test Panel Coating Method		0.8 mil on grit blasted steel panel
Abrasion Resistance	ASTM D-4060	Excellent
Coefficient of Friction	ASTM D-2714	0.04 to 0.06
Operating Temperature Range		-100°F to 400°F (-73°C to 204°C)
Load Carrying Capacity	ASTM 2625, method B	>250,000 psi
Wear Life	ASTM 2625, Method A	>450 minutes

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 InformationShelf 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 9002 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).

Issue Date: 09/28/04 Rev: 5/14/13

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