

Everlube® 9002

Water Based, MoS2 Solid Film Lubricant

| Product Description | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>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, very good chemical resistance and performs best in higher load carrying applications. Everlube 9002 currently qualifies to MIL-PRF-46010F and GE A50TF303. Additional specifications for this product can be found at: http://www.everlubeproducts.com/products</p> | |
| Features / Benefits | |
| <ul style="list-style-type: none"> • Excellent wear life • Excellent abrasion resistance | <ul style="list-style-type: none"> • Very good chemical resistance • Lead Free |
| Markets | Typical Applications |
| <ul style="list-style-type: none"> • Aerospace/Defense • Industrial Machinery & Equipment • Mechanical Components • Fasteners | <ul style="list-style-type: none"> • Virtually all fasteners • Bearing and cams • Gears and splines • Engine ring seals |
| Physical Properties | |
| Lubricating Solid: | MoS2 |
| Binder: | High Molecular Weight Epoxy |
| Color and Appearance:* | Gray/Black 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 ² | |
| Dry Film Thickness | 0.2 to 0.5 mils (5 to 13 microns) |
| Dilution / Cleanup Solvent: ² | N/A - May be thinned with Deionized Water less than 10% by volume. |
| Dilution Ratio: | 0 to 9:1 (Product to Solvent) |
| Cure Cycle: ² | 1 hr. +/- 15 min. @ 375°F or 2 hrs. +/- 15 min. @ 300°F |
| Suggested Pretreatment: | Grit Blast and/or Phosphate |
| Suggested Application Methods: | Dip Spin <input checked="" type="checkbox"/> Spray <input checked="" type="checkbox"/> |
| For additional information, please see Processing Bulletin # 3001 | |

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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 | | 0.8 mil on grit blasted steel panel |
| Abrasion Resistance | ASTM D4060 | Excellent |
| Coefficient of Friction | ASTM D2714 | 0.04 to 0.06 |
| Operating Temperature Range | | -100° to 400°F (-73° 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 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® 9002 is available in Gallon, 5-Gallon Pail, 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.

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