Technical Data

Lube-Lok[®] 2109 MoS₂, Solid Film Lubricant



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| Product Description | | | | |
|---|--|--|--|--|
| binder system. This coating provides excellent ch performs best in higher load carrying applications industrial specification; these listings can be verifi | I solid film lubricant with a high molecular weight epoxy nemical resistance, wear life, abrasion resistance and a. Lube-Lok 2109 is approved/qualified to many aerospace and ied at <u>http://www.everlubeproducts.com/specifications.php</u> When f the specification and revision is required to assure product | | | |
| Features / Benefits | | | | |
| Excellent wear life | Excellent abrasion resistance | | | |
| Excellent chemical resistance | Ideal for higher load carrying applications | | | |
| Markets | Typical Applications | | | |
| Aerospace/Defense Mashaniael Components | Bushings, shafts, splines and cams | | | |
| Mechanical ComponentsChemical Processing | Slides, guides and railsVirtually all fasteners | | | |
| Industrial Machinery & Equipment | Threaded connectors and disconnects | | | |
| Physical Properties | | | | |
| Lubricating Solids: | MoS2 | | | |
| Binder: | High molecular weight phenolic | | | |
| Color and Appearance:* | Matte, dark gray finish | | | |
| Carrier: | Solvent borne | | | |
| Solids (by weight):* | 40% to 44% | | | |
| Density:* | 9.6 \pm 0.5 lb/gal (1150 \pm 60 grams/liter) | | | |
| Flash Point: | 16°F (-8.9°C) | | | |
| Volatile Organic Compound: | 695 grams/liter (5.8 lb/gal) | | | |
| Theoretical Coverage: ¹ | 540 ft ² /gal @ 0.5 mils (13.2 m ² /liter @ 12.7 microns) | | | |
| Alternative or Repair Coatings: | A low VOC alternative coating for Lube-Lok 2109 is our Everlube 9002.For touch-up applications, Perma-Slik G or Lubri-Bond 220 works well with Lube-Lok 2109. | | | |
| Processing Information | | | | |
| Dry film thickness | 0.2 to 0.5 mil (5 to 13 microns) | | | |
| Dilution / Cleanup solvent: | 642 solvent, or MEK or 50/50 MEK/ethyl acetate | | | |
| Dilution Ratio: | 1:1 to 1:3 (product to solvent) | | | |
| Cure Cycle: | 1 hr @ 400°F ± 25°F | | | |
| Suggested pretreatment: | Grit blast and/or phosphate | | | |
| Suggested application methods: | Dip spin, spray | | | |

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

| Lube-Lok 2109 Page 2 of 2 | | | | | |
|-------------------------------------|----------|---------------------|-------------------------|-------------------------|---------------|
| Typical Functional Properties | | | | | |
| | AST | I Test N | lethod | Value | |
| Corrosion Resistance* | | | | | |
| Test Panel | ASTN | 1 B117 | | 100 hrs. @ 5% neutra | ll salt spray |
| Test Panel Coating Method | | | | 0.8 mil on grit blasted | steel panel |
| Abrasion Resistance | _ | 1 D4060 | | Excellent | |
| Coefficient of Friction | ASTN | 1 D2714 | | 0.04 to 0.08 | |
| 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* | | | Method A | >450 minutes | |
| Pencil Hardness | | 1 D3363 | | >4H (gouge) | |
| Thermal Stability | - | 1 D2511 | | Pass | |
| Film Adhesion | - | | Method A | Pass | |
| Chemical Resistance (ASTM D- | 2510, Me | thod 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 | Cleaning Compound | | Pass |
| Trichlorofluoroethane | | Pass | Reagent Water | | Pass |
| Substitute Ocean Water | | Pass | Turbine F | uel | Pass |
| Silicone Based Damping Fluid | | Pass | Aircraft Lu | ube Oil | Pass |
| Low Temp Weapon Lube Oil | | Pass | Lubricant. | , Semi-Fluid | Pass |
| Weapons Lubricant, Cleaner & Preser | vative | 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:

Lube-Lok 2109 is available in gallons, 5-gallon pails, quarts

Warranty:

No representation of 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).

based on 100% transfer enciency at a dry him thickness of 0.0003 inch (12.3 in

Issue Date: 10/18/10 Latest Revision Date: 11/01/17

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