

## Technical Data



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# Lube-Lok® 5306

## Mil Spec MoS<sub>2</sub> Solid Film Lubricant

| Product Description   |   |
|---|---|
| <p>Lube Lok® 5306 is a thermally cured MoS<sub>2</sub> based solid film lubricant with a high molecular weight phenolic binder system. This coating provides very good wear life, chemical resistance, good abrasion resistance and performs best in higher load carrying applications. Lube-Lok 5306 is approved/qualified to many aerospace and industrial specification; these listings can be verified at <a href="http://www.everlubeproducts.com/specifications.php">http://www.everlubeproducts.com/specifications.php</a>. When requesting pricing or ordering of product, listing of the specification and revision is required to assure product certification compliance</p> |   |
| Features / Benefits   |   |
| <ul style="list-style-type: none"><li>• Very good wear life</li><li>• Very good chemical resistance</li></ul>   | <ul style="list-style-type: none"><li>• Good abrasion resistance</li><li>• Ideal for higher load carrying applications</li></ul>  |
| Markets   | Typical Applications  |
| <ul style="list-style-type: none"><li>• Aerospace/Defense</li><li>• Medical</li><li>• Mechanical components</li><li>• Industrial machinery &amp; Equipment</li></ul>  | <ul style="list-style-type: none"><li>• Bearings, gears, splines and cams</li><li>• Valve components</li><li>• Hydraulic fittings</li><li>• Seals, clamps and couplings</li></ul> |
| Physical Properties   |   |
| Lubricating Solids:   | MoS <sub>2</sub>  |
| Binder:   | High molecular weight phenolic  |
| Color and Appearance:*  | Matte gray finish   |
| Carrier:  | Solvent borne   |
| Solids (by weight):*  | 40% to 44%  |
| Density:*   | 9.1 ± 0.5 lb/gal (1090 ± 60 grams/liter)  |
| Flash Point:  | 34°F (-4°C)   |
| Volatile Organic Compound:  | 640 grams/liter (5.34 lb/gal)   |
| Theoretical Coverage: <sup>1</sup>  | 450 ft <sup>2</sup> /gal @ 0.5 mils (11 m <sup>2</sup> /liter @ 12.7 microns)   |
| Alternative or Repair Coatings:   | A low VOC alternative coating for Lube Lok 5306 is our Everlube 9002. For touch-up applications, Perma-Slik G or Lubri-Bond 220 works well with Lube Lok 5306.                    |
| Processing Information  |   |
| Dry Film Thickness  | 0.2 to 0.5 mils (5 to 13 microns)   |
| Dilution/Cleanup Solvent:   | 5000 solvent or MEK   |
| Dilution Ratio for Spray:   | 1:1 to 1:3 (product to solvent by volume) adjust as needed  |
| Cure Cycle:   | 1 hr. @ 302°F ± 27°F (150°C ± 15°C)   |
| Suggested Pretreatment:   | Grit blast and/or phosphate   |
| Suggested application Methods:  | Dip spin, spray, brush  |

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

(Continued)

**Typical Functional Properties**

|                             | <u>ASTM Test Method</u> | <u>Value</u>                        |
|-----------------------------|-------------------------|-------------------------------------|
| Corrosion Resistance        |                         |                                     |
| Test Panel                  |                         | < 240 hrs. @ 5% Neutral Salt Spray  |
| Test Panel Coating Method   |                         | 0.5 mil on grit blasted steel panel |
| Abrasion Resistance         | ASTM D-4060             | Good                                |
| Coefficient of Friction     | ASTM D-2714             | .04 to .08                          |
| Operating Temperature Range |                         | -100°F to 300°F (-73°C to 149°C)    |
| Load Carrying Capacity      | ASTM 2625, Method B     | >250,000 psi                        |
| Wear Life                   | ASTM 2625, Method A     | >250 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 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® 5306 is available in 5-Gallon Pail, Gallon, 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

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

Issue Date: 10/30/02, Latest Revision Date: 6/26/13