

Technical Data

Lube-Lok[®] 5306

Mil Spec MoS₂ Solid Film Lubricant

**CURTISS -
WRIGHT**

Everlube[®] Products

Surface Technologies Division

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Product Description	
<p>Lube Lok[®] 5306 is a thermally cured MoS₂ 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 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</p>	
Features / Benefits	
<ul style="list-style-type: none">• Very good wear life• Very good chemical resistance	<ul style="list-style-type: none">• Good abrasion resistance• Ideal for higher load carrying applications
Markets	Typical Applications
<ul style="list-style-type: none">• Aerospace/Defense• Medical• Mechanical components• Industrial machinery & Equipment	<ul style="list-style-type: none">• Bearings, gears, splines and cams• Valve components• Hydraulic fittings• Seals, clamps and couplings
Physical Properties	
Lubricating Solids:	MoS ₂
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:	16°F (-8.9°C)
Volatile Organic Compound:	640 grams/liter (5.34 lb/gal)
Theoretical Coverage: ¹	719 ft ² /gal @ 0.5 mils (11 m ² /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 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: 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

¹ 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: 11/01/17