

Technical Data

Lube-Lok[®] 5396

MoS₂/Graphite, Solid Film Lubricant

**CURTISS -
WRIGHT**

Everlube[®] Products

Surface Technologies Division

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Product Description:

Lube-Lok 5396 is a thermally cured; MoS₂/graphite based solid film lubricant with a high molecular weight phenolic binder system. This coating provides an extremely low coefficient of friction, very good chemical resistance; good wear life properties and performs best over a wide range of loads. Specifications for this product can be found at: <https://everlubeproducts.com/specification/>.

Features / Benefits:

- Excellent coefficient of friction
- Very good chemical resistance
- Good wear life
- Good torque/tension properties

- Mechanical components
- Industrial machinery and equipment
- Chemical processing
- Fabricated metal parts

Markets:

- Slide valves, cylinders, pistons
- Leaf springs, rocker arms, hinge pins
- Gears, cams and followers
- Sleeve and joint bearings

Physical Properties:

Lubricating Solid

Binder

Color and Appearance*

Carrier:

Solids (by weight)*

Density*

Flash point

Volatile Organic Compound (VOC)

Theoretical Coverage¹

Alternative or Repair Coatings:

MoS₂, Graphite

High molecular-weight phenolic

Matte, dark gray finish

Solvent borne

30% to 34%

8.5 ± 0.5 lbs/gal (1018 ± 60 grams/liter)

38°F (3°C)

694 grams/liter (5.78 lb/gal)

520 ft²/gal @0.5 mils (12.8 m²/liter@12.7 microns)

A low VOC alternative coating for Lube-Lok 5396 is our Everlube 9001. For touch-up applications, Perma-Slik RAC and Lubri-Bond A works well with Lube-Lok 5396.

Processing Information

Dry Film Thickness

Dilution/Cleanup Solvent

Dilution Ratio

Cure Cycle

Suggested Pretreatment

Suggested Application Method

0.3 to 0.8 mils (8 to 20 Microns)

5000 Solvent, 642 solvent or MEK

1:1 to 1:3 (product to solvent)

1 hr @ 300°F +/- 25°F

Grit blast and or phosphate

Spray / Dip Spin

For additional information, please see processing bulleting #3000-A

(Continued)

Typical Functional Properties:

	ASTM Test Method	Value
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	Good
Coefficient of Friction	ASTM D2714	.02 to .04
Operating Temperature Range		-100°F to 300°F (-73°C to 149°C)
Load Carrying Capacity	ASTM D2625, Method B	<100,000 psi
Wear Life	ASTM 2714	>100,000 cycles
Pencil Hardness	ASTM D3363	4H+

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	Cleaning Compounds, Mil-H-372	Pass
Trichlorotrifluoroethane, Mil-C-81302	Pass	Substitute Ocean Water, ASTM D-1141	Pass
Aircraft Lube Oil, Synthetic Base, Mil-L-23699	Pass	Silicone Based Damping Fluid, VV-D107	Pass
Low Temp Weapon Lube Oil, Mil-L-14107	Pass	Lubricant, Semi-Fluid, Mil-L-46000	Pass
Weapons, Lubricants, Mil-L-63460	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, store 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 5396 is available in gallon, 5-gallon pails, 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 test are performed on each production lot

**Contact Everlube Products for any certification fee

¹ Based on 100% transfer efficiency at a dry film thickness of 0.001 inch (25 microns).

LEF/kr: 2/23/06 Latest Revision Date: 7/8/21