Technical Data

Lube-Lok® 2396

Water Based, MoS_2/Graphite Solid Film Lubricant

CURTISS-WRIGHT
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Product Description

Lube-Lok 2396 is a low VOC, thermally cured, MoS2/Graphite based solid film lubricant which utilizes a silicate binder system. This coating provides excellent thermal stability, very good chemical resistance, lead free, and performs best in higher load carrying applications. Lube-Lok 2396 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

Features / Benefits

- Excellent thermal stability
- Excellent coefficient of friction
- Very good wear life
- Ideal for higher load carrying applications

Markets

- Aerospace/Defense
- Mechanical Components
- Industrial Machinery & Equipment
- Chemical Processing

Typical Applications

- Specialty fasteners
- Bushings, shafts, and splines
- Bearing guides and sleeves
- Gears, cams and followers

Physical Properties

Lubricating Solids:	MoS_2, Graphite
Binder:	Silicate
Color and Appearance:*	Light Gray Matte Finish
Carrier:	Water borne
Solids (by weight):*	51% to 55%
Density:*	13.6 ± 0.5 lb/gal (1630 ± 60 grams/liter)
Flash Point:	None
Volatile Organic Compound:	0 grams/liter (0 lb/gal)
Theoretical Coverage:[1]	936 ft^2/gal@ 0.5 mils (22.9 m^2/liter @ 12.7 microns)
Alternative or Repair Coatings:	Solvent based thermally cured equivalents for Lube-Lok 2396 are Everlube 810. For touch-up applications, Perma-Slik RAC works well with Lube-Lok 2396.

Processing Information

Dry Film Thickness	0.2 to 1.4 mils (5 to 36 microns)
Dilution/Cleanup Solvent:	Deionized Water
Dilution Ratio:	As needed with deionized water
Cure Cycle:	2 hr @ 180 °F, then 2 hr. @ 400 °F
Suggested Pretreatment:	Grit blast
Suggested application Methods:	Dip spin, brush or spray

For additional information, please see Processing Bulleting #3002

Typical Functional Properties

	ASTM Test Method	Value
Corrosion Resistance		
Test Panel	ASTM B-117	<48 hrs.
Test Panel Coating Method		0.8 mil on grit blasted steel panel
Abrasion Resistance	ASTM D-4060	Fair
Coefficient of Friction	ASTM D-2714	0.02 to 0.04
Operating Temperature Range		-300°F to 750°F (-184°C to 399°C)
Load Carrying Capacity	ASTM 2625, method B	<100,000 psi
Wear Life	ASTM 2625, Method A	>60 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%)	N/R
Toluene	Pass	Sodium Hydroxide (10%)	N/R
Acetone	Pass	Distilled Water	N/R
Skydrol 500 (room temperature)	N/R	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® 2396 is available in gallon, quart, and 5-gallon pails

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).

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