Technical Data

Lube-Lok® 2006

MoS_2/Graphite, Solid Film Lubricant

Everlube® Products
Surface Technologies Division
100 Cooper Circle | Peachtree City, GA 30269
T: 770.261.4800 | **F:** 770.261.4805 | 800-428-7802

Product Description:

Lube-Lok 2006 is a thermally cured; MoS_2/graphite based solid film lubricant that utilizes a silicone binder system. This coating is specifically designed to provide lubrication in higher temperature environments. It also provides an extremely low coefficient of friction, very good chemical resistance, and good wear life properties. Lube-Lok 2006 is sold to many aerospace related specifications, which are found at: www.everlubeproducts.com/products.

Features / Benefits:

- Excellent coefficient of friction
- Very good chemical resistance
- Good wear life
- Ideal for higher load carrying applications

Markets:

- Mechanical components
- Industrial machinery and equipment
- Aerospace/defense
- Chemical processing
- Virtually all fasteners
- Valve components
- Bearings and seals
- Gears and splines

Physical Properties:

Lubricating Solid	MoS_2, Graphite
Binder	Silicone
Color and Appearance*	Matte, dark gray finish
Carrier:	Solvent borne
Solids (by weight)*	33% to 37%
Density*	9 ± 0.5 lbs/gal (1078 ± 60 grams/liter)
Flash point	69°F (21°C)
Volatile Organic Compound (VOC)	702 grams/liter (5.85 lb/gal)
Theoretical Coverage[1]	546 ft^2/gal @ 0.5 mils (13.3 m^2/liter@12.7 microns)

Alternative or Repair Coatings: A low VOC alternative coating for Lube-Lok 2006 is our Everlube 9001. For touch-up applications, Perma-Slik RAC works well with Lube-Lok 2006.

Processing Information[2]

Dry Film Thickness	0.2 to 0.5 mils (5 to 13 Microns)
Dilution/Cleanup Solvent[2]	Xylene or Toluene
Dilution Ratio	1:1 to 1:3 (product to solvent)
Cure Cycle[2]	2 hrs @ 475°F +/- 25°F
Suggested Pretreatment	Grit blast
Suggested Application Method	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	24 to 48 hrs. @ 5% Neutral Salt Spray
Test Panel Coating Method		0.5 mil on grit blasted steel panel
Abrasion Resistance	ASTM D4060	Good
Coefficient of Friction	ASTM D2714	.02 to .04
Operating Temperature Range		-300°F to 750°F (-184°C to 399°C)
Load Carrying Capacity	ASTM D2625, Method B	<100,000 psi
Wear Life	ASTM D2625, Method A	>60 minutes
Pencil Hardness	ASTM D3363	2B
Film Adhesion	ASTM 2510A	Pass

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, 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 2006 is available in gallons and quarts

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 0.0005 inch (13.7 microns).
[2] Contact Technical Services for additional options.
[3] Specific chemical tested per the specification requirements.

CJB/kr: 7/15/05 Rev: 2-15-12

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