

Technical Data

Lube-Lok[®] 1000

Vitreous Graphite Solid Film Lubricant

**CURTISS -
WRIGHT**

Everlube[®] Products

Surface Technologies Division

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Product Description

Lube-Lok 1000 is a vitreous bonded high temperature solid film lubricant designed for use in the 800°F to 1200°F range. The lubricant package consists of synthetic graphite and lead oxide, which provides low friction and medium load carrying capacity in high temperature applications. Lube-Lok 1000X consists of a base coat of Lube-Lok 1000 and a topcoat of Lube-Lok 2006. This combination provides a durable synergism that works best in most applications. The Lube-Lok 2006 topcoat resists the hazards of handling and installation far better than the Lube-Lok 1000 by itself. Specs for Lube-Lok 1000 & 1000X can be found at: <http://www.everlubeproducts.com/products>.

Features / Benefits

- Excellent thermal stability
- Excellent stability in a vacuum
- Very good wear life
- Ideal for medium load carrying applications

Markets

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

Typical Applications

- Bearing guides and races
- Threaded connectors and disconnects
- Bushings, rotary joints, and cams
- Rings and Seals

Physical Properties

Lubricating Solid:	Graphite
Binder:	Vitreous
Color and Appearance:*	Gray-Black Matte Finish
Carrier:	Solvent
Solids (by weight):*	33% to 37%
Density:*	9.9 ± 0.5 lb/gal (1187 ± 60 grams/liter)
Flash Point:	77°F (25°C)
Volatile organic compound	775 grams/liter (6.5 lb/gal)
Theoretical Coverage: ¹	340 ft ² /gal @ 0.5 mils (8.3 m ² /liter @ 12.7 microns)

Processing Information

Dry film thickness	0.2 to 0.6 mils (5 to 15 microns)
Dilution / Cleanup solvent:	MEK, Xylene, or Isopropanol
Dilution Ratio (For spray):	1:1 (by volume) Adjust as needed.
Cure Cycle:	30 minutes @ 250°F, then 15 minutes @ 1000°F
Suggested pretreatment:	Grit Blast
Suggested application methods:	Spray

For additional information, please see Processing Bulletin #3000A

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	<u>ASTM Test Method</u>	<u>Value</u>
Corrosion Resistance		
Test Panel	ASTM B117	<24 hrs. in 5% neutral salt spray
Test Panel Coating Method		0.5 mil on grit blasted steel panel
Abrasion Resistance	ASTM D4060	Excellent
Coefficient of Friction	ASTM D2714	.04 to .06
Operating Temperature Range		-100°F to 1200°F (-73°C to 650°C)
Load Carrying Capacity	ASTM 2625, Method B	< 50,000 psi
Wear Life	ASTM 2625, Method A	< 60 minutes

Additional Information

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 1000 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 of 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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