

Technical Data

Everlube[®] 6107

PTFE, Solid Film Lubricant

**CURTISS -
WRIGHT**

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

Everlube 6107 is a thermally cured, solid film lubricant that contains a small dispersion of PTFE to enhance torque/tension properties. It is frequently used as a barrier coating to provide very good chemical resistance along with superior corrosion and chip resistance. Everlube 6107 is purchased by a wide variety of markets, ranging from Medical to Chemical Processing.

Features / Benefits

- Excellent abrasion resistance
- High gloss, decorative appearance
- RoHS Compliant
- Very good corrosion and chemical resistance
- Suitable for Medical ISO 10993 bio-compatibility testing

Markets

- Medical
- Fasteners
- Semiconductor
- Chemical Processing

Typical Applications

- Surgical devices
- Guides, slides, and rails
- Various fasteners
- Hinges, and locking mechanisms

Physical Properties

Lubricating Solid	PTFE
Binder	High Molecular Weight Phenolic
Color and Appearance*	Gloss Black Finish
Carrier	Solvent borne
Solids (by weight)*	25% to 29%
Density*	7.8 ± 0.5 lb/gal (935 ± 60 grams/liter)
Flash point	16°F (-8.9°C)
Volatile Organic Compound	672 grams/liter (5.6 lb/gal)
Theoretical Coverage ¹	526 ft ² /gal @ 0.5 mils (12.9 m ² /liter @ 12.7 microns)
Alternative or Repair Coatings	For touch-up applications, Lubri-Bond 320 Black works well with Everlube 6107

Processing Information

Dry Film Thickness	0.3 to 1 mils (8 to 25 microns)
Dilution/Cleanup Solvent	80/20 - MEK/PM Acetate
Dilution Ratio (for spray)	1:3 (Product to Solvent by volume) adjust as needed
Cure Cycle	1 hr. @ 300° F +/- 25° F (part metal temperature)
Suggested Pretreatment	Grit Blast and/or Phosphate
Suggested Application Methods	Dip Spin/Spray

For additional information, please see Processing Bulletin #3000-A

Typical Functional Properties

	<u>ASTM Test Method</u>	<u>Value</u>
Corrosion Resistance		
Test Panel	ASTM B117	336 to 480 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	N/A
Operating Temperature Range		-100°F to 300°F (-73°C to 149°C)
Load Carrying Capacity	ASTM D2714	N/A
Wear Life	n/a	N/A
Gloss @ 60F		90 +/- 10
Pencil Hardness	ASTM D3363	4H
Film Adhesion	ASTM D2510A	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 (room temperature)	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:

Everlube 6107 is available in Gallons, 5-Gallon Pails, Quarts

Warranty:

No representation of 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: 5/11/09 , Latest Revision Date: 11/03/17