

Technical Data

Everlube® 6111

PTFE, Solid Film Lubricant

**CURTISS -
WRIGHT**

Everlube® Products

Surface Technologies Division

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Product Description

Everlube 6111 is a thermally cured, PTFE/MoS₂ based solid film lubricant with a high molecular weight epoxy binder system. This coating is ideal for applications that require excellent corrosion resistance along with a very low coefficient of friction. Everlube 6111 also offers very good chip and wear resistance. For specification on Everlube 6111, please visit our specification guide at: <http://www.everlubeproducts.com/products>

Features / Benefits

- Excellent corrosion resistance
- Very good wear resistance
- Very good chip resistance
- Ideal for lighter load carrying applications

Markets

- Fasteners
- Fabricated Metal Parts
- Industrial Machinery
- Chemical Processing

Typical Applications

- Large fasteners
- Springs, coils, and clamps
- Mandrels, castings, and stampings
- Petro chemical hardware

Physical Properties

Lubricating Solids	MoS ₂ /PTFE
Binder	High molecular weight epoxy
Color and Appearance*	Dark gray finish (other colors may be available)
Carrier	Solvent borne
Solids (by weight)*	34% to 38%
Density*	9.1 ± 0.5 lb/gal (1092 ± 60 grams/liter)
Flash Point	40°F (4.4°C)
Volatile Organic Compound	685 grams/liter (5.71 lb/gal)
Theoretical Coverage ¹	744 ft ² /gal @ 0.5 mils (18.2 m ² /liter @ 12.7 microns)
Alternative or Repair Coatings	For touch-up applications, Perma-Slik® RMT works well with Everlube 6111.

Processing Information

Dry Film Thickness	0.2 to 0.7 mil (5 to 18 microns)
Dilution / Cleanup Solvent	MEK
Dilution Ration (for spray)	1:1 to 1:3 (product to solvent) by volume
Cure Cycle	1 hr @ 375°F to 400°F
Suggested Pretreatment	Grit blast and/or phosphate
Suggested Application Method	Spray

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

(Continued)

Typical Functional Properties

	<u>ASTM Test Method</u>	<u>Value</u>
Corrosion Resistance		
Test Panel	ASTM B117	>500 hrs. @ 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 400°F (-73 to 204°C)
Load Carrying Capacity	ASTM 2714	Up to 40,000 psi
Wear Life	ASTM 2714	55,000 cycles avg.
Pencil Hardness	ASTM D-3363	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 (room temperature)	Pass	Jet Fuels (JP-4)	Pass
Hydraulic Fluids	Pass	Trichloroethylene	Pass
Anti-Icing Fluids	Pass	Standard test fluid, TT-S-735, Type II	Pass
Aviation gas, Mil-G-5572, Gd. 115/45	Pass	Hydraulic Fluid, Mil-H-5606	Pass
Aircraft Turbine Oil, Mil-L-7808	Pass	H-D Lube Oil, Mil-L-2104	Pass
1,1,1 Trichloroethane	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:

Everlube 6111 is available in 5-gallon pail, Gallon, Quart

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: 1/15/03, Latest Revision Date: 11/03/17