

## Technical Data

# Everlube® 6110

## PTFE, Solid Film Lubricant

**CURTISS -  
WRIGHT**

**Everlube® Products**

Surface Technologies Division

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### Product Description

Everlube 6110 is a thermally cured, PTFE based solid film lubricant with a high molecular weight epoxy binder system. This coating provides excellent chip and abrasion resistance, very good chemical resistance and performs best in lighter load carrying applications.

### Features / Benefits

- Excellent corrosion resistance
- Excellent chip and abrasion resistance
- Very good chemical resistance
- Ideal for lighter load carrying applications

### Markets

- Automotive
- Aerospace/Defense
- Semiconductor
- Chemical Processing

### Typical Applications

- Fasteners
- Guides, slides, and rails
- Automotive components
- Levers, latches, and cams

### Physical Properties

Lubricating Solids	PTFE
Binder	Epoxy
Color and Appearance*	Matte Black Finish (other colors may be available)
Carrier	Solvent borne
Solids (by weight)*	32% to 36%
Density*	8.6 ± 0.5 lb/gal (1030 ± 60 grams/liter)
Flash Point	40°F (4.4°C)
Volatile Organic Compound	685 grams/liter (5.71 lb/gal)
Theoretical Coverage <sup>1</sup>	642 ft <sup>2</sup> /gal @ 0.5 mils (15.7 m <sup>2</sup> /liter @ 12.7 microns)
Alternative or Repair Coatings	For touch-up applications, Lubri-Bond® 320 Black works well with Everlube 6110.

### Processing Information<sup>2</sup>

Dry Film Thickness	0.3 to 1 mil (8 to 25 microns)
Dilution / Cleanup Solvent <sup>2</sup>	MEK, 50:50 – MEK:Toluene (pre-blended)
Dilution Ratio	1:1 to 1:3 (product to solvent) by volume
Cure Cycle <sup>2</sup>	1 hr @ 375°F ± 25°F
Suggested Pretreatment	Grit blast and/or phosphate
Suggested Application Method	Spray
For additional information, please see Processing Bulletin #3000-A	

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**Typical Functional Properties**

	<u>ASTM Test Method</u>	<u>Value</u>
Corrosion Resistance		
Test Panel	ASTM B117	>1000 hrs. @ 5% neutral salt spray
Test Panel Coating Method		0.8 mil on grit blasted steel panel
Abrasion Resistance	ASTM D4060	Excellent
Coefficient of Friction	ASTM D2714	.06 to .08
Operating Temperature Range		-100°F to 400°F (-73 to 204°C)
Load Carrying Capacity	ASTM 2714	Up to 25,000 psi
Wear Life	ASTM 2714	<40,000 cycles

**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	Standard test fluid, TT-S-735, Ty II <sup>3</sup>	Pass
Aviation gas, Mil-G-5572, Gd. 115/45 <sup>3</sup>	Pass	Hydraulic Fluid, Mil-H-5606 <sup>3</sup>	Pass
Aircraft Turbine Oil, Mil-L-7808 <sup>3</sup>	Pass	H-D Lube Oil, Mil-L-2104 <sup>3</sup>	Pass
1,1,1 Trichloroethane <sup>3</sup>	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 6110 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

<sup>1</sup> Based on 100% transfer efficiency at a dry film thickness of 0.0005 inch (12.5 microns).

<sup>2</sup> Contact Technical Services for additional options

<sup>3</sup> Specific chemicals tested per the specification requirements.

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