

## Technical Data

# Everlube<sup>®</sup> 6108

## PTFE, Solid Film Lubricant

**CURTISS -  
WRIGHT**

**Everlube<sup>®</sup> Products**

Surface Technologies Division

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### Product Description

Everlube 6108 is a thermally cured; PTFE based solid film lubricant with a high molecular weight phenolic binder system. It provides improved torque/tension control on a wide variety of threaded fastener applications. Everlube 6108 offers excellent corrosion resistance, very good chemical resistance, and good abrasion resistance. Everlube 6108 is sold to a wide variety of automotive specifications. Please see our specification guide for additional information, it can be found at: <http://www.everlubeproducts.com/products>

### Features / Benefits

- Excellent corrosion resistance
- Very good chemical resistance
- Good abrasion resistance
- Good color and processing flexibility

### Markets

- Automotive
- Fasteners
- Chemical Processing
- Fabricated Metal Parts

### Typical Applications

- Small to medium fasteners
- Cylinder, brackets, guides, and pullers
- Slides, guides, and rails
- Valve bodies, and ball assemblies

### Physical Properties

Lubricating Solids:	PTFE
Binder:	High molecular weight phenolic
Color and Appearance:*	Satin black finish. Additional colors available
Carrier:	Solvent borne
Solids (by weight):*	35% to 39%
Density:*	8.3 ± 0.5 lb/gal (996 ± 60 grams/liter)
Flash Point:	16°F (-8.9°C)
Volatile Organic Compound:	689 grams/liter (5.75 lb/gal)
Theoretical Coverage: <sup>1</sup>	577 ft <sup>2</sup> /gal @ 0.5 mils (14.1 m <sup>2</sup> /liter @ 12.7 microns)
Alternative or Repair Coatings:	A low VOC alternative coating for Everlube 6108 is our Everlube 9500. For touch-up applications, Perma-Slik RTAC or Lubri-Bond 320 works well with Everlube 6108.

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

Dry film thickness	0.3 to 1 mil (8 to 25 microns)
Dilution / Cleanup solvent: <sup>2</sup>	MEK or 600 solvent
Dilution Ratio:	1:1 to 1:3 (product to solvent)
Cure Cycle: <sup>2</sup>	1 hr @ 300°F ± 25°F
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	>1,000 hrs.
Test Panel Coating Method		0.8 mil on grit blasted steel panel
Assorted Fasteners	ASTM B117	≥240 hrs.
Assorted Fastener Coating Method (1/8" to 3/8" shank, 1½" to 2½" long)		Zinc Phosphate and 3 dip/spin coats with 0.6 to 0.8 mils DFT
Abrasion Resistance	ASTM D4060	Good
Coefficient of Friction	ASTM D2714	0.05 to 0.08
Operating Temperature Range		-100°F to 300°F (-73°C to 149°C)
Load Carrying Capacity	ASTM 2714	Up to 25,000 psi
Wear Life	ASTM 2714	>100,000 cycles
Pencil Hardness	ASTM D3363	>5H
Film Adhesion	ASTM D2510	Pass
Thermal Stability	ASTM D2511	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	Aircraft Lube Oil, Mil-L-6082	Pass
Aircraft Turbine Oil, Mil-L-7808	Pass	H-D Lube Oil, Mil-L-2104	Pass
DC-550 Fluid	Pass	1,1,1-trichloroethane	Pass
Lubricating Oil, VV-L-800	Pass	Lubricant Oil, Weapons (Mil-L-14017)	Pass
Lubricating Oil, Aircraft Turbine, Mil-L-23699	Pass	Lubricating Oil, Weapons (Mil-L-46000)	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 6108 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).

Issue Date: 10/31/02, Latest Revision Date: 11/03/17