

Technical Data

Everlube® 6112

MoS₂, Solid Film Lubricant

**CURTISS -
WRIGHT**

Everlube® Products

Surface Technologies Division

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Product Description

Everlube 6112 is a thermally cured, MoS₂ based solid film lubricant with a high molecular weight epoxy binder system. This coatings provides excellent wear resistance in almost any environment. Along with its wear resistance, Everlube 6112 is ideal for applications where an abrasion and corrosion resistant coating is needed. Everlube 6112 also offers excellent barrier protection from harsh chemicals and solvents.

Features / Benefits

- Excellent wear resistance
- Excellent abrasion resistance
- Very good corrosion resistance
- Very good chemical resistance

Markets

- Industrial Machinery
- Mechanical Components
- Fabricated Metal Parts
- Automotive

Typical Applications

- Pumps and valves
- Actuator stems and shafts
- Slides, guides and rails
- Dampers, tubes and tracks

Physical Properties

Lubricating Solids	MoS ₂
Binder	Epoxy
Color and Appearance*	Matt Gray/Black
Carrier	Solvent borne
Solids (by weight)*	53% - 57%
Density*	10.2 ± 0.5 lb/gal (1222 ± 60 grams/liter)
Flash Point	24°F (-4°C)
Volatile Organic Compound	454 grams/liter (3.78 lb/gal)
Theoretical Coverage ¹	1090 ft ² /gal @ 0.5 mils (26.7 m ² /liter @ 12.7 microns)
Alternative or Repair Coatings	N/A

Processing Information²

Dry Film Thickness	0.2 to 0.7 mil (5 to 18 microns)
Dilution / Cleanup Solvent ²	MEK or 642 Solvent
Dilution Ration	1:1 to 1:3 (product to solvent) by volume
Cure Cycle ²	1 hr @ 375°F
Suggested Pretreatment	Grit blast and/or phosphate
Suggested Application Method	Spray/Dip Spin

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		-200° to 450°F (-129° to 232°C)
Load Carrying Capacity	ASTM 2625, Method B	> 250,000 psi
Wear Life	ASTM 2625, Method A	495 min.

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		

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 6112 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).

² Contact Technical Services for additional options

³ Specific chemicals tested per the specification requirements.

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