

## Technical Data

# Everlube<sup>®</sup> 626

## MoS<sub>2</sub> Solid Film Lubricant

**CURTISS -  
WRIGHT**

Everlube<sup>®</sup> Products

Surface Technologies Division

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<b>Product Description</b>	
Everlube 626 is a thermally cured MoS <sub>2</sub> based solid film lubricant which utilizes a high molecular weight phenolic binder system. This coating provides excellent abrasion resistance, very good chemical resistance, and good wear life. Everlube 626 offers exceptional performance properties and contains no antimony or lead compounds. Specifications for this product can be found at: <a href="http://www.everlubeproducts.com/products">http://www.everlubeproducts.com/products</a>	
<b>Features / Benefits</b>	
<ul style="list-style-type: none"><li>• Excellent abrasion resistance</li><li>• Very good corrosion resistance</li></ul>	<ul style="list-style-type: none"><li>• Good wear life</li><li>• Ideal for higher load carrying applications</li></ul>
<b>Markets</b>	<b>Typical Applications</b>
<ul style="list-style-type: none"><li>• Aerospace/Defense</li><li>• Chemical Processing</li><li>• Mechanical Components</li><li>• Industrial Machinery</li></ul>	<ul style="list-style-type: none"><li>• Bearings, gears, splines and cams</li><li>• Seals, clamps and couplings</li><li>• Threaded connectors and disconnects</li><li>• Firearm components</li></ul>
<b>Physical Properties</b>	
Lubricating Solids:	MoS <sub>2</sub>
Binder:	High molecular weight phenolic
Color and Appearance:*	Flat black/gray finish
Carrier:	Solvent borne
Solids (by weight):*	26% to 30%
Density:*	8.2 ± 0.5 lb/gal (0 ± 60 grams/liter)
Flash Point:	24°F (-4°C)
Volatile Organic Compound:	756 grams/liter (6.3 lb/gal)
Theoretical Coverage: <sup>1</sup>	423 ft <sup>2</sup> /gal @ 0.5 mils (10.3 m <sup>2</sup> /liter @ 12.7 microns)
Alternative or Repair Coatings:	Air dry alternatives for Everlube 626 is Lubri-Bond K
<b>Processing Information</b>	
Dry Film Thickness	0.2 to 0.5 mils (5 to 13 microns)
Dilution/Cleanup Solvent:	MEK or 50% Ethyl Alcohol and 50% Toluene (preblended)
Dilution Ratio for Spray:	1:3 (product to solvent by volume) adjust as needed
Cure Cycle:	1 hr. @ 300°F ± 15°F (149°C ± 10°C) (part metal temp)
Suggested Pretreatment:	Grit blast and/or phosphate
Suggested application Methods:	Dip spin, 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 B-117	>100 hrs. @ 5% Neutral Salt Spray
Test Panel Coating Method		0.5 mil on grit blasted steel panel
Abrasion Resistance	ASTM D-4060	Good
Coefficient of Friction	ASTM D-2714	.04 to .06
Operating Temperature Range		-365° to 300°F (-221° to 149°C)
Load Carrying Capacity*	ASTM 2625, Method B	>250,000 psi
Wear Life*	ASTM 2625, Method A	<120 minutes

**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	N/R	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 626 is available is gallon, 5-gallon pail, and quart

Warranty:

No representation or 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).

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