

## Technical Data

# Everlube<sup>®</sup> 9500

## Water Based, PTFE Solid Film Lubricant

**CURTISS -  
WRIGHT**

**Everlube<sup>®</sup> Products**

Surface Technologies Division

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Product Description	
Everlube 9500 is a low VOC PTFE based solid film lubricant with a high molecular weight organic binder system. This coating provides excellent abrasion resistance, very good corrosion, chemical resistance and performs best in lighter load carrying applications. For a water based coating, this product is very user friendly.	
Features / Benefits	
<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>• Very good chemical resistance</li><li>• Ideal for low friction applications</li></ul>
Markets	Typical Applications
<ul style="list-style-type: none"><li>• Medical</li><li>• Semiconductor</li><li>• Fabricated Metal Parts</li><li>• Fasteners</li></ul>	<ul style="list-style-type: none"><li>• Virtually all fasteners</li><li>• Pump and valve components</li><li>• Locking mechanisms</li><li>• Springs and coils</li></ul>
Physical Properties	
Lubricating Solids:	PTFE
Binder:	High Molecular Weight Polymer
Color and Appearance:*	Satin Black Finish, additional color options are available
Carrier:	Water based
Solids (by weight):*	34 to 36%
Density:*	9.5 ± 0.5 lb/gal (1138 ± 60 grams/liter)
Flash Point:	>200°F (93°C)
Volatile Organic Compound:	359 grams/liter (3 lb/gal)
Theoretical Coverage: <sup>1</sup>	738 ft <sup>2</sup> /gal @ 0.5 mils (18 m <sup>2</sup> /liter @ 12.7 microns)
Alternative or Repair Coatings:	Solvent based alternatives for Everlube 9500 are our Everlube 721 and Everlube 6108 products. For touch-up applications, Perma-Slik RTAC or Lubri-Bond 320 works well with Everlube 9500.
Processing Information	
Dry Film Thickness	0.3 to 0.7 mils (8 to 18 microns)
Dilution/Cleanup Solvent:	May be thinned with deionized water up to 10% by volume if needed
Dilution Ratio:	Concentrate to 9:1 (product to solvent) by volume
Cure Cycle:	1 hr. @ 325°F to 350°F
Suggested Pretreatment:	Grit Blast and/or Phosphate
Suggested application Methods:	Dip spin / Spray
For additional information, please see Processing Bulletin #3001	

**Typical Functional Properties**

	<u>ASTM Test Method</u>	<u>Value</u>
Corrosion Resistance		
Test Panel	ASTM B-117	400 hrs. @ 5% Neutral Salt Spray
Test Panel Coating Method		0.8 mil on grit blasted steel panel
Abrasion Resistance	ASTM D-4060	Excellent
Coefficient of Friction	ASTM D-2714	0.06 to 0.08
Operating Temperature Range		-100°F to 400°F (-73°C to 204°C)
Load Carrying Capacity	ASTM 2714	<20,000 psi
Wear Life	ASTM 2714	>50,000 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		

Note: Chemical resistance may vary depending on the cur 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 9500 is available is gallon, quart, and 5-gallon pail

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 (12.7 microns).

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