

Technical Data

Everlube® 9601

Water Based, PTFE Solid Film Lubricant

**CURTISS -
WRIGHT**

Everlube® Products

Surface Technologies Division

100 Cooper Circle | Peachtree City, GA 30269

T: 770.261.4800 | F: 770.261.4805 | 800-428-7802

Product Description

Everlube 9601 is a thermally cured, low VOC PTFE based solid film lubricant with a high molecular weight organic binder system. This coating provides excellent abrasion resistance, very good corrosion resistance, chemical resistance and performs best in lighter load carrying applications. Everlube 9601 is purchased by a wide variety of markets, ranging from Automotive to Medical. Additional specifications for this product can be found at: <http://www.everlubeproducts.com/products>

Features / Benefits

- Excellent abrasion resistance
- Ideal for low friction applications
- Suitable for Medical ISO 10993 bio-compatibility testing
- Very good corrosion resistance

Markets

- Automotive
- Semiconductor
- Fabricated Metal Parts
- Medical

Typical Applications

- Clamps, staplers and scissors
- Semiconductor machinery
- Locking mechanisms, springs and coils
- Surgical devices

Physical Properties

Lubricating Solids:	PTFE
Binder:	High Molecular Weight Epoxy
Color and Appearance:*	Matte Black Finish, (additional colors available)
Carrier:	Water based
Solids (by weight):*	34% to 38%
Density:*	9 ± 0.5 lb/gal (1078 ± 60 grams/liter)
Flash Point:	>200°F (93°C)
Volatile Organic Compound:	294 grams/liter (2.45 lb/gal)
Theoretical Coverage: ¹	802 ft ² /gal @ 0.5 mils (19.6 m ² /liter @ 12.7 microns)
Alternative or Repair Coatings:	Solvent based alternatives for Everlube 9601 are our Everlube 722 and Everlube R-75, and Everlube 6110.

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	>230,000 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 9420 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

¹ Based on 100% transfer efficiency at a dry film thickness of 0.0005 inch (12.7 microns).

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