

Technical Data

Everlube[®] 721

PTFE, Commercial Grade
Solid Film Lubricant

**CURTISS -
WRIGHT**

Everlube[®] Products

Surface Technologies Division

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Product Description

Everlube 721 is a commercial grade, thermally cured, PTFE based solid film lubricant with an organic binder system. This coating offers excellent corrosion resistance, very good chemical resistance, good abrasion resistance and performs best in lighter load carrying applications. Everlube 721 offers good processing and color flexibility. Specifications for this product can be found at:
<http://www.everlubeproducts.com/products>

Features / Benefits

- Excellent chemical and corrosion resistance
- Good abrasion resistance
- RoHS Compliant
- Ideal for lighter load carrying applications

Markets

- Semiconductor
- Fabricated Metal Parts
- Chemical Processing
- Fasteners

Typical Applications

- Virtually all fasteners
- Tooling, wear plates and conveyor parts
- Hydraulic and pneumatic components
- Pump and valve components

Physical Properties

Lubricating Solids	PTFE
Binder	Organic
Color and Appearance*	Matte black finish, additional color options are available.
Carrier	Solvent based
Solids (by weight)*	35% to 39%
Density*	8.3 ± 0.5 lb/gal (995 ± 60 grams/liter)
Flash Point	24°F (-4°C)
Volatile Organic Compound	684 grams/liter (5.7 lb/gal)
Theoretical Coverage ¹	577 ft ² /gal @ 0.5 mils (14.1 m ² /liter @ 12.7 microns)
Alternative or Repair Coatings	A low VOC alternative coating for Everlube 721 is our Everlube 9500. For touch-up applications, Perma-Slik RTAC or Lubri-Bond 320 works well with Everlube 721.

Processing Information

Dry Film Thickness	0.2 to 1 mil (5 to 25 microns)
Dilution / Cleanup Solvent	MEK, 50/50 MEK/ethyl acetate, or 600 solvent
Dilution Ratio (for spray)	1:2 (product to solvent by volume) adjust as needed
Cure Cycle	1 hr @ 300°F +/- 25°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	>600 hrs @ 5% neutral salt spray
Test Panel Coating Method		0.8 mil on grit blasted steel panel
Abrasion Resistance	ASTM D4060	Good
Coefficient of Friction	ASTM D2714	0.05 to 0.08
Operating Temperature Range		-100° to 300°F (-73 to 149°C)
Load Carrying Capacity	ASTM 2714	<20,000 psi
Wear Life	ASTM 2714	>100,000 cycles average

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 (room temp)	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 721 is available in gallons, 5-gallon pails, and 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

¹ Based on 100% transfer efficiency at a dry film thickness of 0.0005 inch (12.5 microns).

Issue Date: 8/19/02, Latest Revision Date: 6/14/11