

Technical Data

Everlube[®] 9400

Water Based, PTFE Solid Film Lubricant

**CURTISS -
WRIGHT**

Everlube[®] Products

Surface Technologies Division

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Product Description

Everlube 9400 is a thermally cured, low VOC. PTFE based solid film lubricant with an organic binder system. This coating is designed to provide good release properties during production and assembly of neoprene, nitrile, and Buna-N elastomers. Specifications for this product can be found at: <http://www.everlubeproducts.com/products>.

Features / Benefits

- Good release properties
- Good flexibility
- Good lubricity
- Good adhesion to elastomeric substrates

Markets

- Elastomeric parts
- Mechanical components
- Industrial machinery
- Fabricated metal parts

Typical Applications

- Elastomeric parts
- Plastic components
- O-rings and seals

Physical Properties

Lubricating Solids:	PTFE
Binder:	Organic
Color and Appearance:*	Clear (translucent) other colors available
Carrier:	Water based
Solids (by weight):*	25% to 29%
Density:*	9 ± 0.5 lb/gal (1078 ± 60 grams/liter)
Flash Point:	n/a
Volatile Organic Compound:	0 grams/liter (0 lb/gal)
Theoretical Coverage: ¹	678 ft ² /gal@0.5 mils (16.6 m ² /liter @ 12.7 microns
Alternative or Repair Coatings:	n/a

Processing Information

Dry Film Thickness	0.2 to 0.6 mils (5 to 15 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:	30 min. @77°F ± 10°F then 15 to 30 min. @ 300°F
Suggested Pretreatment:	Degrease only
Suggested application Methods:	spray

For additional information, please see Processing Bulletin #3001

Continued

Typical Functional Properties

	<u>ASTM Test Method</u>	<u>Value</u>
Corrosion Resistance		
Test Panel	ASTM B-117	n/a
Test Panel Coating Method		
Abrasion Resistance	ASTM D-4060	n/a
Coefficient of Friction	ASTM D-2714	.04 to .08
Operating Temperature Range		-100°F to 250°F (-73°C to 121°C)
Load Carrying Capacity	ASTM 2714	<10,000 psi
Wear Life	ASTM 2714	>10,000 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%)	N/R
Toluene	N/R	Sodium Hydroxide (10%)	N/R
Acetone	N/R	Distilled Water	Pass
Skydrol 500	N/R	Jet Fuels (JP-4)	N/R
Hydraulic Fluids	Pass	Trichloroethylene	N/R
Anti-Icing Fluids	Pass	Cleaning Compounds	N/R
Freon TF, Mil-C-891302	N/R	Reagent Water	Pass
Sea Water	Pass	Synthetic Hydraulic Fluid, Mil-L-83282	Pass
Synthetic Lube Oil, Mil-L-23699	Pass	Silicone Damping Fluids VV-D-1078	Pass
Lubricating Oil, Mil-L-14107	Pass	Lubricating Oil, Mil-L-46000	Pass
Lubricant/Cleaner, Mil-L-63460	Pass		

Note: Chemical resistance may vary depending on the cure cycle. N/R = not recommended

Additional InformationShelf 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 9400 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 (25 microns).

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