

Technical Data

**CURTISS -
WRIGHT**

Everlube® 6173

PTFE, Solid Film Lubricant

Everlube® Products

Surface Technologies Division

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Product Description	
Everlube 6173 is a water-based solid film lubricant that uses an acrylic binder system and a fluoropolymer blend of lubricants. This coating offers the flexibility to stretch and fill voids in threaded surface areas which helps to seal burred or ragged threads. Everlube 6173 also provides resistance to vibration and is not affected by water and/or most oils.	
Features / Benefits	
<ul style="list-style-type: none">• Good lubricity• Good flexibility	<ul style="list-style-type: none">• Good abrasion resistance• Ideal for lighter load carrying applications
Markets	Typical Applications
<ul style="list-style-type: none">• Mechanical Components• Fabricated Metal Parts• Industrial Machinery• Chemical Processing	<ul style="list-style-type: none">• Gaskets• Threaded Sealants• Seals, Washers• Freeze Plugs
Physical Properties	
Lubricating Solids:	PTFE Blend
Binder:	Acrylic
Color and Appearance:*	Blue Finish
Carrier:	Water based
Solids (by weight):*	48% to 52%
Density:*	9.2 ± 0.5 lb/gal (1018 ± 60 grams/liter)
Flash Point:	None
Volatile Organic Compound:	0 grams/liter (0 lb/gal)
Theoretical Coverage: ¹	1594 ft ² /gal @ 0.5 mils (39.1 m ² /liter @ 12.7 microns)
Alternative or Repair Coatings:	N/A
Processing Information	
Dry Film Thickness	0.3 to 1 mils (8 to 25 microns)
Dilution/Cleanup Solvent:	May be thinned with Deionized Water less than 10% by volume.
Dilution Ratio:	As needed
Cure Cycle:	30 minutes @ 300°F or 10 minutes @ 400°F
Suggested Pretreatment:	Grit blast and/or phosphate
Suggested application Methods:	Dip spin, brush or spray
For additional information, please see Processing Bulletin #3000-A	

Typical Functional Properties

	<u>ASTM Test Method</u>	<u>Value</u>
Corrosion Resistance		
Test Panel	ASTM B-117	>48 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	0.02 to 0.06
Operating Temperature Range		-100°F to 400°F (-73°C to 204°C)
Load Carrying Capacity	ASTM D2714	<10,000 psi
Wear Life	ASTM D2714	>15,000 cycles avg.
Pencil Hardness	ASTM D-3363	5B+
Film Adhesion	ASTM D-2510A	Pass

Chemical Resistance (ASTM D-2510, Method C)

Isopropyl Alcohol or Ethyl Alcohol	N/R	Diethanolamine	N/R
Mineral Spirits or Paint Thinner	N/R	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	N/R	Trichloroethylene	N/R
Anti-Icing Fluids	N/R		

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 6173 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

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

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