

Technical Data

Everlube[®] 810

MoS₂/Graphite, Solid Film Lubricants

**CURTISS -
WRIGHT**

Everlube[®] Products

Surface Technologies Division

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Product Description	
Everlube 810 is a thermally cured, MoS ₂ /Graphite based solid film lubricant with a silicone binder system. This coating is specifically designed to provide lubrication in higher temperature applications. Everlube 810 also provides a low coefficient of friction, very good wear life and performs well in higher load carrying applications. Specifications for this product can be found at: http://www.everlubeproducts.com/products	
Features / Benefits	
<ul style="list-style-type: none">• Excellent thermal stability• Excellent coefficient of friction	<ul style="list-style-type: none">• Very good wear life• Ideal for higher load carrying applications
Markets	Typical Applications
<ul style="list-style-type: none">• Aerospace/Defense• Chemical Processing• Mechanical Components• Industrial Machinery & Equipment	<ul style="list-style-type: none">• Bushings, rotary joints, cams and pins• Threaded connectors and disconnects• Bearing guides and sleeves• Rings and seals
Physical Properties	
Lubricating Solids	MoS ₂ , Graphite
Binder	Silicone
Color and Appearance*	Matte Gray Finish
Carrier	Solvent borne
Solids (by weight)*	34% to 38%
Density*	8.3 ± 0.5 lb/gal (995 ± 60 grams/liter)
Flash Point	48°F (9°C)
Volatile Organic Compound	637 grams/liter (5.31 lb/gal)
Theoretical Coverage ¹	776 ft ² /gal @ 0.5 mils (19 m ² /liter @ 12.7 microns)
Alternative or Repair Coatings:	Everlube 810 water-based alternatives is Everlube 811product. For touch-up applications, Perma-Slik RAC and Lubri-Bond HT works well with Everlube 810.
Processing Information	
Dry Film Thickness	0.2 to 0.6 mils (5 to 15 microns)
Dilution / Cleanup Solvent	Toulene
Dilution Ratio for spray	1:3 (Product to Solvent by volume) Adjust as needed
Cure Cycle	1 hr. @ 525 °F ± 25 °F
Suggested Pretreatment	Grit Blast
Suggested Application Method	Spray/dip spin
For additional information, please see Processing Bulleting #3000-A	
(Continued)	

Typical Functional Properties

	<u>ASTM Test Method</u>	<u>Value</u>
Corrosion Resistance		
Test Panel	ASTM B117	24 to 72 hours
Test Panel Coating Method		0.5 mil on grit blasted steel panel
Abrasion Resistance	ASTM D4060	Fair
Coefficient of Friction	ASTM D2714	.02 to .04
Operating Temperature Range		-300° to 750°F (-184 to 399°C)
Load Carrying Capacity	ASTM D2625, Method B	<100,000 psi
Wear Life	ASTM D2625, Method A	60 minutes 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%)	N/R
Toluene	Pass	Sodium Hydroxide (10%)	N/R
Acetone	Pass	Distilled Water	Pass
Skydrol 500	N/R	Jet Fuels (JP-4)	Pass
Hydraulic fluids	Pass	Trichloroethylene	N/R
Anti-Icing fluids	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 810 is available in gallon, 5-gallon pail, gallon, and quart

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 (12.7 microns).

Issue Date: 10/31/02, Latest Revision Date:3/29/12