

Technical Data

Everlube® 622

Graphite Solid Film Lubricant

**CURTISS -
WRIGHT**

Everlube® Products

Surface Technologies Division

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Product Description

Everlube 622 is a graphite-based solid film lubricant that utilizes a high molecular weight phenolic binder system. The coating is designed to enhance torque/tension relationships associated with threaded fasteners while offering corrosion protection under a wide variety of environmental conditions. Everlube 622 is specially formulated to minimize halogen concentrations and is free of lead, mercury, and other heavy metals. Please see our specification guide for additional information, it can be found at: <http://www.everlubeproducts.com/products>.

Features / Benefits

- Good corrosion resistance
- Very good chemical resistance
- Excellent torque/tension reduction
- Minimal halogen, sulfur, phosphorous, and heavy metal concentrations

Markets

- Industrial Machinery and Equipment
- Fasteners
- Power Generation
- Fabricated Metal Parts

Typical Applications

- Small to medium fasteners
- Cylinder, brackets, guides, and pullers
- Slides, guides, and rails
- Bearings, cams, gears, shafts

Physical Properties

Lubricating Solids	Special blend containing graphite
Binder	High molecular weight phenolic
Color and Appearance*	Satin black finish
Carrier	Solvent based
Solids (by weight)*	22% to 26%
Density*	7.6 ± 0.5 lb/gal (912 ± 60 grams/liter)
Flash Point	24°F (-4°C)
Volatile Organic Compound	696 grams/liter (5.8 lb/gal)
Theoretical Coverage ¹	453 ft ² /gal @ 0.5 mils (11.1 m ² /liter @ 12.7 microns)

Processing Information

Dry Film Thickness	0.3 to 1 mil (8 to 25 microns)
Dilution / Cleanup Solvent	MEK or 600 solvent
Dilution Ration (For spray)	1:1 to 1:3 (product to solvent) Adjust as needed.
Cure Cycle	1 hr @ 300°F ± 25°F
Suggested Pretreatment	Grit blast and/or phosphate
Suggested Application Method	Dip Spin, Spray

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	>500 hrs.
Test Panel Coating Method		0.8 mil on grit blasted steel panel
Assorted Fasteners	ASTM B117	≥240 hrs
Assorted Fastener Coating Method (1/8" to 3/8" shank, 1 1/2" to 2 1/2" long)		Zinc Phosphate and 3 dip/spin coats with 0.6 to 0.8 mils DFT
Abrasion Resistance	ASTM D4060	Good
Coefficient of Friction	ASTM D2714	.04 to .07
Operating Temperature Range		-100° to 300°F (-73 to 177°C)
Load Carrying Capacity	ASTM 2714	<50,000 psi
Wear Life	ASTM 2714	>100,000 cycles
Pencil Hardness	ASTM D3363	>4H
Film Adhesion	ASTM D2510	Pass
Thermal Stability	ASTM D2511	Pass

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 (Ambient)	Pass	Jet Fuels (JP-4)	Pass
Hydraulic Fluids	Pass	Trichloroethylene	Pass
Anti-Icing Fluids	Pass	Cleaning Compounds	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 622 is available in gallon, 5-gallon pail, 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 (12.5 microns).

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