Technical Data

Everlube® 720

PTFE/MoS_2, Commercial Grade Solid Film Lubricant

CURTISS-WRIGHT
Everlube® Products
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Product Description

Everlube 720 is a commercial grade, thermally cured, PTFE/MoS_2 based solid film lubricant with an organic binder system. This coating provides very good chemical resistance, wear life, corrosion resistance and performs best in lighter load carrying applications. This coating offers good processing and color flexibility. Additional specifications for this product can be found at: http://www.everlubeproducts.com/products.

Features / Benefits

- Very good chemical and corrosion resistance
- RoHS compliant
- Very good wear life
- Ideal for lighter load carrying applications

Markets

- Medical
- Fabricated Metal Parts
- Industry Machinery & Equipment
- Fasteners

Typical Applications

- Virtually all fasteners
- Linkages, springs and coils
- Locking mechanisms
- Stampings, castings and extrusions

Physical Properties

Lubricating Solids	PTFE, MoS_2
Binder	Organic
Color and Appearance*	Satin black finish, additional color options are available.
Carrier	Solvent borne
Solids (by weight)*	32.5% to 36.5%
Density*	8.3 ± 0.5 lb/gal (995 ± 60 grams/liter)
Flash Point	24°F (-4°C)
Volatile Organic Compound	680 grams/liter (5.67 lb/gal)
Theoretical Coverage[1]	604 ft^2/gal @ 0.5 mils (14.7 m^2/liter@ 12.7 microns)
Alternative or Repair Coatings	N/A

Processing Information

Dry Film Thickness	0.2 to 1 mil (5 to 25 microns)
Dilution / Cleanup Solvent	MEK, 600 solvent, or 50/50 ethanol/toluene by volume
Dilution Ration (for spray)	1:1 to 3:1 (product to solvent)
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 Bulleting #3000-A

(Continued)

Typical Functional Properties

	ASTM Test Method	Value
Corrosion Resistance		
Test Panel	ASTM B117	500 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	0.06 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	>120,000 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 720 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: 11/7/11