

Technical Data

Everlube[®] 723

PTFE, Commercial Grade Solid Film Lubricant

**CURTISS -
WRIGHT**

Everlube[®] Products

Surface Technologies Division

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PRODUCT DESCRIPTION:

Everlube 723 utilizes a thermally cured, organic binder system, which contains a special blend of fluoropolymer lubricants. This coating provides very good release, abrasion resistance, reduced squeaking noises and performs best in lighter load carrying applications.

FEATURES/BENEFITS:

- Very good release properties
- Very good abrasion resistance
- Reduced squeaking noises
- Ideal for lighter load carrying applications

MARKETS:

- Elastomeric parts
- Automotive
- Medical
- Fabricated metal parts

TYPICAL APPLICATIONS:

- Rollers, guide rails and tracks
- Elastomeric parts
- Mold cavities and pins
- Rotary joints and pins

PHYSICAL PROPERTIES

Lubricating solids:	Fluoropolymer blend
Binder:	Organic
Color and appearance:*	Satin black finish, additional color options are available.
Carrier:	Solvent based
Solids (by weight):*	30% to 36%
Density:*	9.0 ± 0.5 lb/gal (1126 ± 60 grams/liter)
Flash point:	40°F (4.4°C)
Volatile organic compound:	720 grams/liter (6.0 lb/gal)
Theoretical coverage: ¹	879 ft ² /gal @ 0.5 mils (21.6 m ² /liter @ 12.7 microns)
Alternative or repair coatings:	A low VOC alternative coating for Everlube 723 is our Everlube 9600.

PROCESSING INFORMATION

Dry film thickness	0.5 to 2 mils (13 to 51 microns)
Dilution / cleanup solvent:	50/50 blend of N-methyl-2-pyrrolidone (NMP) and cyclohexanone, 900 solvent, or 960 solvent
Dilution ratio (for spray):	Concentrate to 3:1 (product to solvent)
Cure cycle:	1 hour @ 400°F to 450°F (204°F C to 232°C)
Suggested pretreatment:	Grit blast and/or phosphate
Suggested application methods:	Spray

For additional information, please see Processing Bulletin #3000-A.

TYPICAL FUNCTIONAL PROPERTIES:

	ASTM Test Method	Value
Corrosion Resistance		
Test panel	ASTM B117	>500 hrs. @ 5% neutral salt spray
Test panel coating method		1.2 mil (30 microns) on grit blasted steel panel
Abrasion resistance	ASTM D4060	Good
Coefficient of friction	ASTM D2714	0.02 to 0.06
Operating temperature range		-100°F to 500°F (-73°C to 260°C)
Load carrying capacity	ASTM D2714	Up to 25,000 psi
Wear Life	ASTM D2714	200,000 cycles

CHEMICAL RESISTANCE (ASTM D-2510, METHOD C)

Isopropyl alcohol or ethyl alcohol	Pass	Diethanolamine	Pass
Mineral sprites 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	Saturated Sodium Chloride	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 723 is available in 5-gallon pail, gallon, 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 (12.7 microns)

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