Technical Data

Everlube® 732

MoS_2 Commercial Grade Solid Film Lubricant

Everlube® Products
Surface Technologies Division
100 Cooper Circle | Peachtree City, GA 30269
T: 770.261.4800 | **F:** 770.261.4805 | 800-428-7802

Product Description

Everlube 732 is a commercial grade, thermally cured, MoS2 based solid film lubricant with an organic binder system. This coating provides very good chemical resistance, thermal stability, abrasion resistance, and performs best in higher load carrying applications. Everlube 732 also helps prevent galling and seizing.

Features / Benefits

- Very good thermal stability
- Very good chemical resistance
- Very good abrasion resistance
- Ideal for higher load carrying applications

Markets	Typical Applications
• Industrial Machinery & Equipment	• Guide & sliding rails
• Mechanical Components	• Bearings, cams, splines and shafts
• Chemical Processing	• Valve components
• Fabricated Metal Parts	• Bushings, shafts, rods and plates

Physical Properties

Lubricating Solids	MoS_2
Binder	Organic
Color and Appearance*	Gray/Black Matte Finish
Carrier	Solvent based
Solids (by weight)*	38% to 42%
Density*	10.6 ± 0.5 lb/gal (1270 ± 60 grams/liter)
Flash Point	45°F (7°C)
Volatile Organic Compound	776 grams/liter (6.47 lb/gal)
Theoretical Coverage[1]	820 ft^2/gal @ 0.5 mils (20 m^2/liter @ 12.7 microns)
Alternative or Repair Coatings	N/A

Processing Information

Dry Film Thickness	0.2 to 1 mils (5 to 25 microns)
Dilution / Cleanup Solvent	50/50 blend of N-Methyl-2-Pyrrolidone (NMP) and Cyclohexanone or 900 Solvent
Dilution Ration (for spray)	3:1 (product to solvent by volume) Adjust as needed.
Cure Cycle	1 hr. at 150°F to 250°F, then 1 hr at 400°F to 450°F
Suggested Pretreatment	Grit Blast and/or Phosphate
Suggested Application Method	Spray

For additional information, please see Processing Bulleting #3000-A

(Continued)

Typical Functional Properties

	ASTM Test Method	Value
Corrosion Resistance		
Test Panel	ASTM B117	48-96 hrs @ 5% neutral salt spray
Test Panel Coating Method		0.8 mil on grit blasted steel panel
Abrasion Resistance	ASTM D4060	Very good
Coefficient of Friction	ASTM D2714	0.04 to 0.06
Operating Temperature Range		-100° to 600°F (-73 to 316°C)
Load Carrying Capacity	ASTM 2625, Method B	>250,000 psi
Wear Life	ASTM 2625, Method A	300 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%)	Pass
Toluene	Pass	Sodium Hydroxide (10%)	Pass
Acetone	Pass	Distilled Water	Pass
Skydrol 500 (room temperature)	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 732 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: 03/18/10 Rev. 6/25/15