Lube-Lok[®] 77S MoS₂/Graphite, Solid Film Lubricant



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

Product Description				
phenolic binder system. This coating	MoS2/Graphite based solid film lubrica provides excellent wear resistance, ar le range of loads. Specifications for this oducts	n extremely low coefficient of		
Features / Benefits				
Excellent wear resistanceVery good chemical resistan		Contains no lead or antimony compoundsIdeal for higher load carrying applications		
Markets	Typical Applica	Typical Applications		
 Mechanical Components Industrial Machinery Fabricated Metal Parts Chemical Processing 	DampersThreaded	all fasteners s, tubes and tracks d connectors and disconnects brackets, and disc plates		
Physical Properties				
Lubricating Solids Binder Color and Appearance:* Carrier: Solids (by weight):* Density:*	Dark gray finish Solvent borne 36% to 40%	High molecular weight phenolic Dark gray finish Solvent borne		
Flash Point:	- (55°F (12.8°C)		
Volatile Organic Compound: Theoretical Coverage: ¹ Alternative or Repair Coatings:	750 grams/liter (6 444 ft²/gal @ 0.5 For touch-up app	750 grams/liter (6.25 lb/gal) 444 ft²/gal @ 0.5 mils (10.8 m²/liter @ 12.7 microns) For touch-up applications, Perma-Slik RAC or Lubri-Bond A works well with Lube-Lok 77-S		
Processing Information				
Dry Film Thickness Dilution/Cleanup Solvent Dilution Ratio: Cure Cycle: Suggested Pretreatment: Suggested Application Methods:	MEK, 600 Solver 3:1 (Solvent: Pro 1 hr. @ 375° F +	0.2 to 0.5 mils (5 to 13 microns) MEK, 600 Solvent or 642 Solvent 3:1 (Solvent: Product) by volume 1 hr. @ 375° F +/- 25° F Grit blast and/or phosphate Spray, Dip/spin		
Typical Functional Properties:				
Corrosion Resistance Test Panel Test Panel Coating Method Abrasion Resistance Coefficient of Friction	ASTM Test Method ASTM B-117 ASTM D-4060 ASTM D-2714	<u>Value</u> <48 hrs. @ 5% neutral salt spray 0.5 mil on grit blasted steel panel Good 0.04 to 0.06		
Operating Temperature Range Load Carrying Capacity Wear Life	ASTM 2625, Method B ASTM 2625, Method A	-100°F to 375°F (-73°C to 191°C) <100,000 psi >60 minutes		

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 500B (room temp)	Pass	Jet Fuels (JP-4)	Pass
Hydraulic Fluids	Pass	Trichloroethylene	Pass
Anti-Icing Fluids	Pass	Std. Test Fluids (TT-S-735, Ty II)	Pass
Hydraulic Fluids, Petroleum (MIL-H-5605)	Pass	Oil, Aircraft turbine engine (Mil-L-23699)	Pass
Dioxane	N/R	Xylene	N/R
Liquid Oxygen	N/R		

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: Lube-Lok 77S is available in quarts, gallons, and 5-gallon pails.

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 (12.5 microns).

Issue date: 6/20/16