Technical Data

Lube-Lok[®] 2109 MoS₂, Solid Film Lubricant



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Product Description				
binder system. This coating provides excellent ch performs best in higher load carrying applications industrial specification; these listings can be verifi	I solid film lubricant with a high molecular weight epoxy nemical resistance, wear life, abrasion resistance and a. Lube-Lok 2109 is approved/qualified to many aerospace and ied at <u>http://www.everlubeproducts.com/specifications.php</u> When f the specification and revision is required to assure product			
Features / Benefits				
Excellent wear life	Excellent abrasion resistance			
Excellent chemical resistance	Ideal for higher load carrying applications			
Markets	Typical Applications			
Aerospace/Defense Mashaniael Components	Bushings, shafts, splines and cams			
Mechanical ComponentsChemical Processing	Slides, guides and railsVirtually all fasteners			
 Industrial Machinery & Equipment 	 Threaded connectors and disconnects 			
Physical Properties				
Lubricating Solids:	MoS2			
Binder:	High molecular weight phenolic			
Color and Appearance:*	Matte, dark gray finish			
Carrier:	Solvent borne			
Solids (by weight):*	40% to 44%			
Density:*	9.6 \pm 0.5 lb/gal (1150 \pm 60 grams/liter)			
Flash Point:	16°F (-8.9°C)			
Volatile Organic Compound:	695 grams/liter (5.8 lb/gal)			
Theoretical Coverage: ¹	540 ft ² /gal @ 0.5 mils (13.2 m ² /liter @ 12.7 microns)			
Alternative or Repair Coatings:	A low VOC alternative coating for Lube-Lok 2109 is our Everlube 9002.For touch-up applications, Perma-Slik G or Lubri-Bond 220 works well with Lube-Lok 2109.			
Processing Information				
Dry film thickness	0.2 to 0.5 mil (5 to 13 microns)			
Dilution / Cleanup solvent:	642 solvent, or MEK or 50/50 MEK/ethyl acetate			
Dilution Ratio:	1:1 to 1:3 (product to solvent)			
Cure Cycle:	1 hr @ 400°F ± 25°F			
Suggested pretreatment:	Grit blast and/or phosphate			
Suggested application methods:	Dip spin, spray			

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

Lube-Lok 2109 Page 2 of 2					
Typical Functional Properties					
	AST	I Test N	lethod	Value	
Corrosion Resistance*					
Test Panel	ASTN	1 B117		100 hrs. @ 5% neutra	ll salt spray
Test Panel Coating Method				0.8 mil on grit blasted	steel panel
Abrasion Resistance	_	1 D4060		Excellent	
Coefficient of Friction	ASTN	1 D2714		0.04 to 0.08	
Operating Temperature Range		_		-100°F to 400°F (-73°	C to 204°C)
Load Carrying Capacity*		ASTM 2625, Method B		>250,000 psi	
Wear Life*			Method A	>450 minutes	
Pencil Hardness		1 D3363		>4H (gouge)	
Thermal Stability	-	1 D2511		Pass	
Film Adhesion	-		Method A	Pass	
Chemical Resistance (ASTM D-	2510, Me	thod 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		Pass	Jet Fuels (JP-4)		Pass
Hydraulic Fluids		Pass	Trichloroethylene		Pass
Anti-Icing Fluids		Pass	Cleaning Compound		Pass
Trichlorofluoroethane		Pass	Reagent Water		Pass
Substitute Ocean Water		Pass	Turbine F	uel	Pass
Silicone Based Damping Fluid		Pass	Aircraft Lu	ube Oil	Pass
Low Temp Weapon Lube Oil		Pass	Lubricant.	, Semi-Fluid	Pass
Weapons Lubricant, Cleaner & Preser	vative	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:

Lube-Lok 2109 is available in gallons, 5-gallon pails, 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).

based on 100% transfer enciency at a dry him thickness of 0.0003 inch (12.3 in

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