Technical Data (Spec Qualified)

Perma-Slik G

Air Dry, MoS_2 Solid Film Lubricant

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Product Description

Perma-Slik G is an air drying; MoS2 based solid film lubricant with an epoxy binder system. This coating provides a low coefficient of friction, good corrosion resistance, and performs best in higher load carrying applications. Perma-Slik G is qualified to MIL-L-23398D, and MIL-PRF-46147 (Rev C and earlier). Additional specifications for this product can be found at: http://www.everlubeproducts.com/products

Features / Benefits

- Good corrosion resistance
- Good coefficient of friction
- Suitable for field applications
- Ideal for higher load carrying applications

Markets	Typical Applications
• Aerospace/Defense	• Fittings and connectors
• Mechanical Components	• Guide, rails and tracks
• Industrial Machinery & Equipment	• Bushings, shafts, splines and cams
• Fabricated Metal Parts	• Seals, clamps and couplings

Physical Properties

Lubricating Solids	MoS_2
Binder	Epoxy
Color and Appearance*	Gray/Dark Gray Matte finish
Carrier	Solvent based
Solids (by weight)*	24% to 26%
Density*	8.15 ± 0.5 lb/gal (977 ± 60 grams/liter)
Flash Point	24°F (-4°C)
Volatile Organic Compound	737 grams/liter (6.15 lb/gal)
Theoretical Coverage[1]	286 ft^2/gal @ 0.5 mils (7 m^2/liter @ 12.7 microns)
Alternative or Repair Coatings	Solvent based thermally cured equivalents for Perma-Slik G are Everlube 620C, Ecoalube 642, Lube Lok 5306, Everlube 733, and Lube Lok 2109. Water based thermally cured equivalents are Everlube 9002.

Processing Information

Dry Film Thickness	0.3 to 0.6 mil (8 to 15 microns)
Dilution / Cleanup Solvent	MEK
Dilution Ration (for spray)	1:1 to 1:2 (product to solvent) by volume -adjust as needed
Cure Cycle	24 hr @ 77°F +/- 10°F
Suggested Pretreatment	Grit blast and/or phosphate
Suggested Application Method	Dip Spin/Spray

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

(Continued)

Typical Functional Properties

	ASTM Test Method	Value
Corrosion Resistance*		
Test Panel	ASTM B117	>100 hrs. @ 5% neutral salt spray
Test Panel Coating Method		0.6 mil on grit blasted steel panel
Abrasion Resistance	ASTM D4060	Fair
Coefficient of Friction	ASTM D2714	0.04 to 0.06
Operating Temperature Range		-100°F to 250°F (-73 to 121°C)
Load Carrying Capacity*	ASTM 2625 Method B	>250,000 psi
Wear Life*	ASTM 2625 Method A	>120 minutes
Film Adhesion*	ASTM D2510 Method A	Pass
Sulfurous acid salt spray*	Fed-STD-791, Method 5331	Pass 4 cycles
Pencil Hardness*	ASTM D-3363	>3H (gouge)

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	TT-S-735 Hydrocarbon test fluid[2]	Pass
MIL-C-372 Cleaning Compound[2]	Pass	Mil-H-5606 Petroleum Hydraulic Fluid[2]	Pass
MIL-L-22851 Lubricating Oil[2]	Pass	MIL-L-23699 Lubricating Oil[2]	Pass
VV-D-1078 Silicone Damping Fluid[2]	Pass	MIL-L-3056 Gasoline[2]	Pass
MIL-L-6082 Lubricating Oil, GD 1110[2]	Pass	MIL-L-7808 Aircraft turbine oil[2]	Pass
MIL-L-46000 Lubricating Oil[2]	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: Perma-Slik® G is available in Gallon, 5-Gallon Pail, Quart, Aerosol Case

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).

[2] Specific chemicals tested per the specification requirements.

Issue Date: 8/19/02, , Latest Revision Date: 4/09/13