

Technical Data

Perma-Slik® S Air Dry, MoS₂ Solid Film Lubricant

**CURTISS -
WRIGHT**

Everlube® Products

Surface Technologies Division
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Product Description

Perma-Slik S is a MoS₂ based solid film lubricant with an alkyd binder system. This coating provides very good wear life, thermal stability and performs best in higher load carrying applications. Generally, this coating will dry to the touch in less than 5 minutes. The product works well as an assembly or break-in lubricant. Specifications for this product can be found at: <http://www.everlubeproducts.com/products>.

Features / Benefits

- Good wear resistance
- Prevents galling and seizing
- Suitable for field applications
- Ideal for high load carrying applications

Markets

- Aerospace/Defense
- General Industrial
- Consumer Products
- MRO

Typical Applications

- Assembly and press fittings
- Gears and journal bearings
- Guides, slides, and tracks
- Threaded connectors

Physical Properties

Lubricating Solids	Molybdenum Disulfide
Binder	Alkyd
Color and Appearance*	Dark Gray Finish
Carrier	Solvent borne
Solids (by weight)*	18% to 22%
Density*	8.1 ± 0.5 lb/gal (971 ± 60 grams/liter)
Flash Point	-4°F (-20°C)
Volatile Organic Compound	721 grams/liter (6.43 lb/gal)
Theoretical Coverage ¹	132 ft ² /gal @ 0.5 mils (3.2 m ² /liter @ 12.7 microns)
Alternative or Repair Coatings	N/A

Processing Information

Dry Film Thickness	0.3 to 0.6 mil (8 to 15 microns)
Dilution / Cleanup Solvent	MEK or Acetone
Dilution Ratio	Neat to 1:1 (Product to Solvent) by volume
Cure Cycle	Tack-free in minutes, fully cured in 24 hrs @ 77°F +/- 10°F
Suggested Pretreatment	Grit blast and/or phosphate
Suggested Application Method	Dip Spin/Spray

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

(Continued)

Typical Functional Properties

	<u>ASTM Test Method</u>	<u>Value</u>
Corrosion Resistance		
Test Panel	ASTM B117	<100 hrs. @ 5% neutral salt spray
Test Panel Coating Method		0.5 mil on grit blasted steel panel
Abrasion Resistance	ASTM D4060	N/A
Coefficient of Friction	ASTM D2714	.04 to .046
Operating Temperature Range		-300° to 750°F (-184° to 399°C)
Load Carrying Capacity*	ASTM 2625 Method B	< 250,000 psi
Wear Life*	ASTM 2625 Method A	N/A

Chemical Resistance (ASTM D-2510, Method C)

Isopropyl Alcohol or Ethyl Alcohol	Pass	Diethanolamine	N/R
Mineral Spirits or Paint Thinner	Pass	Hydrochloric Acid (10%)	N/R
Toluene	N/R	Sodium Hydroxide (10%)	N/R
Acetone	N/R	Distilled Water	Pass
Skydrol 500	N/R	Jet Fuels (JP-4)	N/R
Hydraulic Fluids	Pass	Trichloroethylene	N/R
Anti-Icing Fluids	Pass		

Note: Chemical resistance may vary depending on the cure cycle. N/R = Not recommended

Additional InformationShelf 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 S 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).

Issue Date: 03/14/03, Latest Revision Date: 10/16/03