MoS<sub>2</sub>/Graphite, Solid Film Lubricant

**CURTISS -WRIGHT** Everlube<sup>®</sup> Products

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Product Description						
	VOC MoS <sub>2</sub> /graphite based solid film lubricant with an specially developed for titanium, aluminum, and					
	ok S22-T helps to save energy and reduce tooling wear by					
	sfer characteristics. This coating provides very good wear					
life, and performs best in higher load carry						
Features / Benefits						
Excellent wear life	Easily cleaned from part after forming					
Excellent thermal stability	Excellent lubricant for forming operations					
Markets Typical Applications						
<ul> <li>Industrial machinery</li> </ul>	<ul> <li>Super-plastic titanium forming</li> </ul>					
<ul> <li>Fasteners</li> </ul>	<ul> <li>Stamping lubricant</li> </ul>					
Fabricated metal parts	Cold forging lubricant					
Mechanical components	Aluminum forming compound					
Physical Properties						
Lubricating Solids:	MoS <sub>2</sub> / Graphite					
Binder:	Inorganic					
Color and Appearance:*	Gray finish					
Carrier:	Water borne					
Solids (by weight):*	28% to 32%					
Density:*	10.6 $\pm$ 0.5 lb/gal (1271 $\pm$ 60 grams/liter)					
Flash Point:	None (water based)					
Volatile Organic Compound:	0 grams/liter (0 lb/gal)					
Theoretical Coverage:1	350 ft <sup>2</sup> /gal @ 0.5 mil (8.6 m <sup>2</sup> /liter @12.7 microns)					
Alternative or repair coatings:	For touch-up applications, Perma-Slik RAC works well with Lube-Lok S22-T.					
Processing Information						
Dry Film Thickness	0.2 to 0.5 mils (5 to 13 microns)					
Dilution/Cleanup Solvent:	Deionized water					
Dilution Ratio:	Less than 10% by volume (recommended)					
Cure Cycle (for forming):	30-60 minutes @ 175°F ± 25°F (79°C ± 14°C)					
(other applications):	2 hours @ 175°F (66°C) then 2 hours @ 400°F (204°C)					
	Grit blast					
Suggested Pretreatment:	Grit blast					

For additional information, please see Processing Bulleting #3002

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Typical Functional Properties				
	ASTM Test Method		Value	
Corrosion Resistance				
Test Panel	ASTM B-117		<48 hrs.@ 5% neutral salt spray	
Test Panel Coating Method			0.5 mil on grit blasted	steel panel
Abrasion Resistance	ASTM D-4060		Good	
Coefficient of Friction	ASTM D-2714		0.04 to 0.06	
Operating Temperature Range			-100°F to 750°F (-73°	C to 399°C)
Load carrying capacity	ASTM D-2625, Method B		<100,000 psi	
Wear Life	ASTM D-2625, Method A		<60 minutes	
Chemical Resistance (ASTM D-	2510, Method C)			
Isopropyl alcohol or ethyl alcohol	Pass	Diethanolamine Pass		Pass
Mineral spirits or paint thinner	Pass	Hydroc	chloric acid (10%)	N/R
Toluene	Pass	Sodium Hydroxide (10%)		N/R
Acetone	Pass	Distilled Water		N/R
Skydrol 500	N/R	Jet Fuels (JP-4) Pass		Pass
Hydraulic Fluids	Pass	Trichloroethylene Pass		Pass
Anti-icing fluids	Pass			
Note: Chemical resistance may val	y depending on the d	cure cycle	e. N/R = not recommende	ed

## **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 (4°C to 38°C). Coatings are thermally stable, but we do not recommend prolonged exposure outside of the specified temperature range listed above.

Packaging: Lube-Lok S22-T 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

<sup>1</sup> Based on 100% transfer efficiency at a dry film thickness of 0.0005 inch (12.5 microns).

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