## Everlube<sup>®</sup> 620A

## MoS<sub>2</sub> Solid Film Lubricant

CURTISS -

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Product Description			
phenolic binder system. This coating provides	sed solid film lubricant which utilizes a high molecular weight s excellent chemical resistance, good abrasion and corrosion aluminum alloys, magnesium alloys and any base substrate above 300° F.		
Features / Benefits			
<ul> <li>Very good wear life and abrasion resistance</li> <li>Very good chemical resistance</li> </ul>	<ul><li>RoHS Compliant</li><li>Ideal for higher load carrying applications</li></ul>		
Markets	Typical Applications		
<ul> <li>Aerospace/Defense</li> <li>Industrial Machinery</li> <li>Mechanical Components</li> <li>Chemical Processing</li> </ul>	<ul> <li>Threaded Connectors and disconnects</li> <li>Rollers, brackets, and disc plates</li> <li>Gears, splines and cams</li> <li>Spherical, sleeves bearings</li> </ul>		
Physical Properties			
Lubricating Solids:	MoS <sub>2</sub>		
Binder:	High molecular weight phenolic		
Color and Appearance:*	Matte gray/black finish		
Carrier:	Solvent borne		
Solids (by weight):*	28% to 32%		
Density:*	$8.3\pm0.5$ lb/gal (995 $\pm$ 60 grams/liter)		
Flash Point:	24°F (-4°C)		
Volatile Organic Compound:	697 grams/liter (5.81 lb/gal)		
Theoretical Coverage:1	426 ft <sup>2</sup> /gal@ 0.5 mils (10.4 m <sup>2</sup> /liter @ 12.7 microns)		
Alternative or Repair Coatings:	N/A		
Processing Information			
Dry Film Thickness	0.3 to 0.7 mils (8 to 18 microns)		
Dilution/Cleanup Solvent:	MEK, or 50% Ethyl Alcohol and 50% Toluene (pre-blended)		
Dilution Ratio for Spray:	1:3 (product to solvent by volume) adjust as needed		
Cure Cycle (recommended):	1 hr. @ 300°F ± 25°F		
(optional cure):	1 hr. @ 275°F ± 15°F <sup>(see note 2)</sup>		
Suggested Pretreatment:	Grit blast and/or phosphate		
Suggested application Methods:	Dip spin, spray, brush		

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

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Typical Functional Properties				
	ASTM Test Metho	<u>d</u> <u>Value</u>	Value	
Corrosion Resistance				
Test Panel	ASTM B-117	>100 hrs	>100 hrs. @ 5% neutral salt spray	
Test Panel Coating Method		0.5 mil c	on grit blasted steel panel	
Abrasion Resistance	ASTM D-4060	Good	Good	
Coefficient of Friction	ASTM D-2714	.04 to.06	.04 to.06	
Operating Temperature Range		-100°F t	o 300°F (-73°C to 149°C)	
Load Carrying Capacity*	ASTM 2625, Meth	od B >250,00	>250,000 psi	
Wear Life*	ASTM 2625, Meth	od A >60 min	>60 minutes	
Chemical Resistance (ASTM D-2	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	N/R	Jet Fuels (JP-4) Pas		
Hydraulic Fluids	Pass	Trichloroethylene Pas		
Anti-Icing Fluids	Pass			
Note: Chemical resistance may var	y depending on the cur	e cycle. N/R = not reco	mmended	
Additional Information				
Shelf Life and Storage:				
One year from date of shipment, s 100°F. Coatings are thermally sta temperature range listed above	-		•	
Packaging: Everlube 620A is avail	able is gallon, 5-gallon	pail, and quart		
Warranty: No representation or warranty is e and fitness for use are expressly o recommendation to practice a pate	lisclaimed. Nothing he	rein shall be construed		
* These tests are performed on eac <sup>1</sup> Based on 100% transfer efficiency <sup>2</sup> When using the optional cure, the responsibility to verify coating meet	y at a dry film thickness functional properties of			

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