

**Lubri-Bond® 220****Air Dry, MoS2 Solid Film Lubricant****Product Description**

Lubri-Bond 220 is an air drying, MoS2 based solid film lubricant with an epoxy binder system. This coating provides good corrosion resistance and performs best in higher load carrying applications. It is ideal for applications that do not require a thermally cured coating. Lubri-Bond 220 is also an excellent touch-up lubricant for many of our thermally cured products. Lubri-Bond 220 is qualified to MIL-L-23398. Additional specifications for this product can be found at: <http://www.everlubeproducts.com/products>

**Features / Benefits**

- Good corrosion resistance
- Fair chemical resistance
- Suitable for field applications
- Ideal for higher load carrying applications

**Markets**

- Aerospace/Defense
- Mechanical Components
- Industrial Machinery & Equipment
- Fabricated Metal Parts

**Typical Applications**

- Tooling, brackets and wear plates
- Guide and sliding rails
- Seals, clamps, and couplings
- Bearings, gears, splines and cams

**Physical Properties**

Lubricating Solid:	MoS2
Binder:	Epoxy
Color and Appearance:*	Gray/Black Matte Finish
Carrier:	Solvent Based
Solids (by weight):*	23.6 to 27.6%
Density:*	8.3 ± 0.5 lb/gal (959 ± 60 grams/liter)
Flash Point:	45°F (7°C)
Volatile Organic Compound:	737 grams/liter (6.15 lb/gal)
Theoretical Coverage: <sup>1</sup>	286 ft <sup>2</sup> /gal @ 0.5 mils (7 m <sup>2</sup> /liter @ 12.7 microns)
Alternative or Repair Coatings:	Thermally cured and water-based equivalents for Lubri-Bond 220 are Everlube 620C or Ecoalube 642 and Everlube 9002, respectively.

**Processing Information<sup>2</sup>**

Dry Film Thickness	0.3 to 0.6 mils (8 to 15 microns)
Dilution / Cleanup Solvent: <sup>2</sup>	MEK
Dilution Ratio:	0 to 1:1 (Product to Solvent)
Cure Cycle: <sup>2</sup>	24 hr. @ 77°F +/- 10°F
Suggested Pretreatment:	Grit Blast and/or Phosphate
Suggested Application Methods:	Dip Spin <input checked="" type="checkbox"/>
	Spray <input checked="" type="checkbox"/>

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

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## 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		0.8 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° to 250°F (-73° to 121°C)
Load Carrying Capacity	ASTM 2625, Method B	> 250,000 psi
Wear Life	ASTM 2625, Method A	> 60 minutes
Film Adhesion*	ASTM D2510, Method A	Pass
Sulfurous acid salt spray*	Fed-Std-791, Method 5331	Pass 4 cycles
Thermal Stability	ASTM D2511	Pass

## 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:	Pass	Jet Fuels (JP-4):	Pass
Hydraulic Fluids:	Pass	Trichloroethylene:	Pass
Anti-Icing Fluids:	Pass	Hydrocarbon test fluid, TT-S-735 <sup>3</sup>	Pass
Cleaning Compound, MIL-C-372 <sup>3</sup>	Pass	Aviation Gasoline, MIL-G-5572 <sup>3</sup>	Pass
Petroleum Hydraulic Fluid, MIL-H-5606 <sup>3</sup>	Pass	Lubricating Oil, MIL-L-22851 <sup>3</sup>	Pass
Lubricating Oil, MIL-L-23699 <sup>3</sup>	Pass	Hydraulic Fluid, Non-petroleum, MIL-H-8	Pass
Silicone Damping Fluid, VV-D-1078 <sup>3</sup>	Pass	Gasoline, MIL-G-3056 <sup>3</sup>	Pass
Lubricating Oil, Gd. 1100, MIL-L-6082 <sup>3</sup>	Pass	Aircraft Turbine Oil, MIL-L-7808 <sup>3</sup>	Pass

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

## Additional Information

**Shelf Life** One year from date of shipment, stored in a factory sealed container between the and temperatures, 40° to 90°F. Coatings are thermally stable, but we do not recommend  
**Storage:** prolonged exposure outside of the specified temperature range listed above.

**Packaging:** Lubri-Bond® 220 is available in Gallon, 5-Gallon Pail, Quart, Aerosol Case

**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 Test are performed on each production lot.

<sup>1</sup> Based on 100% transfer efficiency at a dry film thickness of 0.001 inch (25 microns).

<sup>2</sup> Contact Technical Services for additional options.

<sup>3</sup> Specific chemical tested per the specification requirements.

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