

**Technical Data**  
**Lubri-Bond® B**  
**Air Dry, MoS<sub>2</sub>/Graphite**  
**Solid Film Lubricant**

**CURTISS -  
WRIGHT**

**Everlube® Products**

Surface Technologies Division

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**Product Description**

Lubri-Bond B is an air dry, MoS<sub>2</sub>/Graphite based solid film lubricant with an epoxy binder system which was developed for brush-on application. Lubri-Bond B provides an extremely low coefficient of friction, and performs best over a wide variety of loads. Lubri-Bond B is qualified to a wide variety of aerospace specifications, which can be found at: <http://www.everlubeproducts.com/products>.

**Features / Benefits**

- Excellent coefficient of friction
- Fair chemical resistance
- Prevents galling and seizing
- Suitable for field applications

**Markets**

- Aerospace/Defense
- Industrial Machinery
- Mechanical Components
- MRO

**Typical Applications**

- Guides, slides and tracks
- Pivot joints and linkages
- Gears, splines and cams
- Threaded Connectors and disconnects

**Physical Properties**

Lubricating Solid	MoS <sub>2</sub> , Graphite
Binder	Epoxy
Color and Appearance*	Dark Gray Finish
Carrier	Solvent Based
Solids (by weight)*	18% - 22%
Density*	8.1 ± 0.5 lb/gal (971 ± 60 grams/liter)
Flash Point	25°F (-4°C)
Volatile Organic Compound	745 grams/liter (6.21 lb/gal)
Theoretical Coverage <sup>1</sup>	220 ft <sup>2</sup> /gal @ 0.5 mils (5.3 m <sup>2</sup> /liter @ 12.7 microns)
Alternative or Repair Coatings	N/A

**Processing Information**

Dry Film Thickness	0.2 to 0.5 mils (5 to 13 microns)
Dilution/Cleanup Solvent	Methyl Ethyl Ketone (MEK)
Dilution Ratio	1:1 (Product:Solvent) by volume
Cure Cycle	Fully air dry after 6 hrs. or 250°F for 1 hr.
Suggested Pretreatment	Grit Blast and/or Phosphate
Suggested Application Methods	Dip Spin/Spray

For additional information, please see Processing Bulletin #3000A

**Typical Functional Properties**

	<b><u>ASTM Test Method</u></b>	<b><u>Value</u></b>
Corrosion Resistance		
Test Panel	ASTMB117	>100 hrs. @ 5% Neutral Salt Spray
Test Panel Coating Method		0.5 mil on grit blasted steel panel
Abrasion Resistance	ASTM D4060	
Coefficient of Friction	ASTM D2714	.04 to .06
Operating Temperature Range		-100° to 250°F (-73° to 121°C)
Load Carrying Capacity*		< 100,000 psi
Wear Life*		

**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	N/R	Sodium Hydroxide (10%)	Pass
Acetone	N/R	Distilled Water	Pass
Skydrol 500 (room temperature)	N/R	Jet Fuels (JP-4)	Pass
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 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:**

Lubri-Bond B is available in Gallons, 5-gallon pails, Quarts

**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

<sup>1</sup> 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: 05/07/04