

Technical Data
Lubri-Bond® N
MoS₂/Solid Film Lubricant

**CURTISS -
 WRIGHT**

Everlube® Products

Surface Technologies Division

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Product Description

Lubri-Bond N is an air drying, MoS₂/Niobium Diselenide based solid film lubricant with an epoxy binder system. This coating was designed to be used on rubbing surfaces where electrical conductivity is required. Specifications for this product can be found at: <http://www.everlubeproducts.com/specifications.php>.

Features / Benefits

- Good conductive properties
- Low coefficient of friction
- Suitable for field applications
- Ideal for higher load carrying applications

Markets

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

Typical Applications

- Conveyor belts and rollers
- Guide, rails and tracks
- Blades, and brushes
- Clamps

Physical Properties

Lubricating Solid	MoS ₂ , Niobium Diselenide
Binder	Epoxy
Color and Appearance*	Matte Dark Gray Finish
Carrier	Solvent Borne
Solids (by weight)*	11% to 13%
Density*	7.4 ± 0.5 lb/gal (887 ± 60 grams/liter)
Flash Point	65°F (18°C)
Volatile Organic Compound	770 grams/liter (6.42 lb/gal)
Theoretical Coverage ¹	225 ft ² /gal @ 0.5 mils (5.5 m ² /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	Ready to apply
Cure Cycle	8 hr. @ 77°F +/- 10°F or 1 hr. @ 250 °F
Suggested Pretreatment	Grit Blast and/or Phosphate
Suggested Application Methods	Spray

For additional information, please see Processing Bulletin #3000A

Typical Functional Properties

	<u>ASTM Test Method</u>	<u>Value</u>
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	Good
Coefficient of Friction	ASTM D2714	.04 to .06
Operating Temperature Range		-275° to 250°F (-171° to 121°C)
Load Carrying Capacity*	ASTM D-2714	> 20,000 psi
Wear Life*	ASTM 2625, Method A	< 45 min.

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	N/R	Jet Fuels (JP-4)	Pass
Hydraulic Fluids	Pass	Trichloroethylene	N/R
Anti-Icing Fluids	Pass	Hydraulic Oil (Mil-H-5606)	Pass
Hydrocarbon Test Fluid	Pass	Lubricating Oil (Mil-L-7808)	Pass
Aviation Gasoline (115/145)(Mil-G-5572)	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 N 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

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

Issue Date: 12/10/02, Latest Revision Date: 09/20/17