

## Technical Data

# Lubri-Bond<sup>®</sup> HT

## Air Dry, MoS<sub>2</sub> Solid Film Lubricant

**CURTISS -  
WRIGHT**

Everlube<sup>®</sup> Products

Surface Technologies Division

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Product Description	
Lubri-Bond HT is an air drying, MoS <sub>2</sub> based solid film lubricant with a silicone binder system. This coating is specifically designed to provide lubrication in higher temperature environments. Lubri-Bond HT also provides a low coefficient of friction, and performs best when used in anti-galling/anti-seizing applications. Specifications for this product can be found at: <a href="https://everlubeproducts.com/specification/">https://everlubeproducts.com/specification/</a> .	
Features / Benefits	
<ul style="list-style-type: none"><li>• Very good wear life</li><li>• Very good thermal stability</li></ul>	<ul style="list-style-type: none"><li>• Suitable for field applications</li><li>• Ideal for higher load carrying applications</li></ul>
Markets	Typical Applications
<ul style="list-style-type: none"><li>• Aerospace/Defense</li><li>• Mechanical Components</li><li>• Fabricated Metal Parts</li><li>• Chemical Processing</li></ul>	<ul style="list-style-type: none"><li>• Bushings, rotary joints, cams and pins</li><li>• Specialty fasteners</li><li>• Bearing guides and sleeves</li><li>• Threaded connectors and disconnects</li></ul>
Physical Properties	
Lubricating Solids:	MoS <sub>2</sub>
Binder:	Silicone
Color and Appearance:*	Matte gray finish
Carrier:	Solvent borne
Solids (by weight):*	21% to 25%
Density:*	8.7 ± 0.5 lb/gal (1042 ± 60 grams/liter)
Flash Point:	40°F (4.4°C)
Volatile Organic Compound:	770 grams/liter (6.42 lb/gal)
Theoretical Coverage: <sup>1</sup>	155 ft <sup>2</sup> /gal @ 0.5 mils (3.7 m <sup>2</sup> /liter @ 12.7 microns)
Alternative or repair coatings:	Thermally cured alternatives for Lubri-Bond HT is Lube-Lok 2006
Processing Information	
Dry Film Thickness	0.2 to 0.5 mils (5 to 13 microns)
Dilution/Cleanup Solvent:	Toluene or Xylene
Dilution Ratio:	Concentrate to 1:1 (Product to Solvent)
Cure Cycle (for forming):	24 hr. @ 77°F +/- 10°F or 30 min. @ 480 °F
Suggested Pretreatment:	Grit blast
Suggested application Methods:	Spray
For additional information, please see Processing Bulletin #3000-A	

**Typical Functional Properties**

	<u>ASTM Test Method</u>	<u>Value</u>
Corrosion Resistance		
Test Panel	ASTM B-117	24 to 72 hrs. @ 5% neutral salt spray
Test Panel Coating Method		0.5 mil on grit blasted steel panel
Abrasion Resistance	ASTM D-4060	Fair
Coefficient of Friction	ASTM D-2714	.04 to .08
Operating Temperature Range		-300°F to 750°F (-184°C to 399°C)
Load carrying capacity	ASTM D-2625, Method B	>250,000 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
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	Pass
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 (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: Lubri-Bond® HT 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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