Technical Data

Lubri-Bond® 320S

Air Dry PTFE, Solid Film Lubricant

Everlube® Products
Surface Technologies Division
100 Cooper Circle | Peachtree City, GA 30269
T: 770.261.4800 | **F:** 770.261.4805 | 800-428-7802

Product Description

Lubri-Bond 320S is an air drying, PTFE based solid film lubricant with an epoxy binder system. This coating was specially developed for the railroad industry. It provides very good corrosion resistance and performs best in lighter load carrying applications. Lubri-Bond 320S is also an excellent touch-up lubricant for many of our thermally cured products. 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 lighter load carrying applications

Markets

- Transportation
- Mechanical Components
- Fabricated Metal Parts
- Industrial Machinery

Typical Applications

- Railroad door tracks and guides
- Locking mechanisms
- Auto rack tie-downs and chains
- Deck hinges

Physical Properties

Lubricating Solids	PTFE
Binder	Epoxy
Color and Appearance*	Black Finish
Carrier	Solvent borne
Solids (by weight)*	7% to 11%
Density*	7.1 ± 0.5 lb/gal (851 ± 60 grams/liter)
Flash Point	53°F (12°C)
Volatile Organic Compound	744 grams/liter (6.45 lb/gal)
Theoretical Coverage[1]	120 ft^2/gal @ 1 mils (3 m^2/liter @ 25.4 microns)
Alternative or Repair Coatings	N/A

Processing Information

Dry Film Thickness	1 to 2 mils (25 to 51 microns)
Dilution / Cleanup Solvent	Xylene
Dilution Ration	Ready to apply
Cure Cycle	Tack-free in 30 minutes; fully cured in 6 hours @ 75° F
Suggested Pretreatment	Grit blast and/or phosphate
Suggested Application Method	Spray/dip spin

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

(Continued)

Typical Functional Properties

	ASTM Test Method	Value
Corrosion Resistance		
Test Panel	ASTM B117	>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 Frication	ASTM D2714	.04 - .08
Operating Temperature Range		-350°F to 300°F (-212°C to 149°C)
Load Carrying Capacity	ASTM D2714	<20,000 psi
Wear Life	ASTM D2714	>60,000 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	N/R	Sodium Hydroxide (10%)	Pass
Acetone	N/R	Distilled Water	Pass
Skydrol 500	N/R	Jet Fuels (JP-4)	Pass
Hydraulic fluids	Pass	Trichloroethylene	N/R
Anti-Icing fluids	Pass	Hydrocarbon test fluid	Pass
Cleaning compound (Mil-C-372)	Pass	Lubricating Oil, MIL-L-22851	Pass
Lubricating Oil, MIL-L-14107	Pass	Hydraulic Fluid, MIL-H-8446	Pass
Silicone Damping Fluid, VV-D-1078	Pass	Lubricating Oil, MIL-L-6082	Pass
Lubricating oil (Mil-L-7808)	Pass	Lubricating Oil, MIL-L-46006	Pass
			Pass
			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 320S is available in gallon, 5-gallon pail, gallon, and quart

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 (12.7 microns).

Issue Date: 03/14/03, Latest Revision Date: 10/16/03