Technical Data

Lubri-Bond® 320R

Air Dry PTFE, Solid Film Lubricant

CURTISS -WRIGHT 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 320R is an air drying, PTFE based solid film lubricant with an epoxy binder system. This coating provides very good corrosion resistance and performs best in lighter load carrying applications. Lubri-Bond 320R is ideal for applications that do not require a thermally cured coating and is an touch-up lubricant. Lubri-Bond 320R is purchased by a wide variety of markets, including Medical and Semiconductors.

Features / Benefits

- Very good corrosion resistance
 Suitable for Medical ISO 10993 bio-compatibility testing
 - Fair chemical resistance Ideal for field applications

Markets Typical Applications

- Semiconductor
 February Metal Parts
- Fabricated Metal Parts
- Chemical Processing
- Medical

- Pump and valve components
- Control valve bushings
- Springs and coils
- · Surgical devices

Physical Properties

Lubricating Solids PTFE

Binder Epoxy

Color and Appearance* Gray/Black Matte Finish, additional color options are available

Carrier Solvent based

Solids (by weight)*

16 to 20%

Density* 7.5 ± 0.5 lb/gal (899 ± 60 grams/liter)

Flash Point 26°F (-3°C)

Volatile Organic Compound 720 grams/liter (6 lb/gal)

Theoretical Coverage¹ 576 ft²/gal @ 0.5 mils (14.1 m²/liter @ 12.7 microns)

Alternative or Repair Coatings

Thermally cured solvent based equivalents for Lubri-Bond 320R

are Everlube 6108 or Everlube 721 or Everlube 6180 for Medical. A

water based equivalent is Everlube 9500.

Processing Information

Dry Film Thickness 0.5 to 2 mil (13 to 51 microns)

Dilution / Cleanup Solvent MEK

Dilution Ration 0 to 1:1 (Product to Solvent)

Cure Cycle 24 hr. @ 77°F +/- 10°F

Suggested Pretreatment Grit blast and/or phosphate

Suggested Application Method Spray/dip spin

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

(Continued)

Lubri-Bond 320R Page 2 of 2

	ASTM Test Meth	od <u>Value</u>	
Corrosion Resistance			
Test Panel	ASTM B117	>240 hrs @ 5% neu	tral salt spray
Test Panel Coating Method		0.8 mil on grit blaste	d steel panel
Abrasion Resistance	ASTM D4060	Fair	
Coefficient of Frication	ASTM D2714	0.06 to 0.08	
Operating Temperature Range		-100°F to 250°F (-73	3 to 121°C)
Load Carrying Capacity	ASTM D2714	<20,000 psi	
Wear Life	ASTM D2714	40,000 cycles	
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		

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 320R 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.

Issue Date: 08/20/02, Latest Revision Date: 10/16/03

^{*} 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).