**Technical Data (Spec Qualified)**

# Lubri-Bond® 220

## Air Dry, MoS2 Solid Film Lubricant

Everlube® Products

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## Product Description

Lubri-Bond 220 is an air drying, MoS2 based solid film lubricant with an epoxy binder system. This coating provides good corrosion resistance and performs best in higher load carrying applications. It is ideal for applications that do not require a thermally cured coating. Lubri-Bond 220 is also an excellent touch-up lubricant for many of our thermally cured products. Lubri-Bond 220 is qualified to MIL-L-23398. Additional 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 higher load carrying applications

## Markets

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

## Typical Applications

- Tooling, brackets and wear plates
- Guide and sliding rails
- Seals, clamps, and couplings
- Bearings, gears, splines and cams

## Physical Properties

| | |
|---|---|
| Lubricating Solid: | MoS2 |
| Binder: | Epoxy |
| Color and Appearance:* | Gray/Black Matte Finish |
| Carrier: | Solvent Based |
| Solids (by weight):* | 23.6 to 27.6% |
| Density:* | 8.3 ± 0.5 lb/gal (959 ± 60 grams/liter) |
| Flash Point: | 45°F (7°C) |
| Volatile Organic Compound: | 737 grams/liter (6.15 lb/gal) |
| Theoretical Coverage:[1] | 286 ft²/gal @ 0.5 mils (7 m²/liter @ 12.7 microns) |
| Alternative or Repair Coatings: | Thermally cured and water-based equivalents for Lubri-Bond 220 are Everlube 620C or Ecoalube 642 and Everlube 9002, respectively. |

## Processing Information[2]

| | |
|---|---|
| Dry Film Thickness | 0.3 to 0.6 mils (8 to 15 microns) |
| Dilution / Cleanup Solvent:[2] | MEK |
| Dilution Ratio: | 0 to 1:1 (Product to Solvent) |
| Cure Cycle:[2] | 24 hr. @ 77°F +/- 10°F |
| Suggested Pretreatment: | Grit Blast and/or Phosphate |
| Suggested Application Methods: | Dip Spin ☑ |
| | Spray ☑ |

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

## Typical Functional Properties

| | ASTM Test Method | Value |
|---|---|---|
| Corrosion Resistance | | |
| Test Panel | ASTM B117 | > 100 hrs. @ 5% Neutral Salt Spray |
| Test Panel Coating Method | | 0.8 mil on grit blasted steel panel |
| Abrasion Resistance | ASTM D4060 | Fair |
| Coefficient of Friction | ASTM D2714 | 0.04 to 0.06 |
| Operating Temperature Range | | -100° to 250°F (-73° to 121°C) |
| Load Carrying Capacity | ASTM 2625, Method B | > 250,000 psi |
| Wear Life | ASTM 2625, Method A | > 60 minutes |
| Film Adhesion* | ASTM D2510, Method A | Pass |
| Sulfurous acid salt spray* | Fed-Std-791, Method 5331 | Pass 4 cycles |
| Thermal Stability | ASTM D2511 | Pass |

## 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: | Pass | Jet Fuels (JP-4): | Pass |
| Hydraulic Fluids: | Pass | Trichloroethylene: | Pass |
| Anti-Icing Fluids: | Pass | Hydrocarbon test fluid, TT-S-735[3] | Pass |
| Cleaning Compound, MIL-C-372[3] | Pass | Aviation Gasoline, MIL-G-5572[3] | Pass |
| Petroleum Hydraulic Fluid, MIL-H-5606[3] | Pass | Lubricating Oil, MIL-L-22851[3] | Pass |
| Lubricating Oil, MIL-L-23699[3] | Pass | Hydraulic Fluid, Non-petroleum, MIL-H-8 | Pass |
| Silicone Damping Fluid, VV-D-1078[3] | Pass | Gasoline, MIL-G-3056[3] | Pass |
| Lubricating Oil, Gd. 1100, MIL-L-6082[3] | Pass | Aircraft Turbine Oil, MIL-L-7808[3] | 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° to 90°F. Coatings are thermally stable, but we do not recommend prolonged exposure outside of the specified temperature range listed above.

Packaging: Lubri-Bond® 220 is available in Gallon, 5-Gallon Pail, Quart, Aerosol Case

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 Test are performed on each production lot.
[1] Based on 100% transfer efficiency at a dry film thickness of 0.001 inch (25 microns).
[2] Contact Technical Services for additional options.
[3] Specific chemical tested per the specification requirements.

Issue Date: 08/20/02, Latest Revision Date: 10/19/06