

## Technical Data

**Everlube® Products**

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# Everlube® 29 GMX

## MoS<sub>2</sub>/Graphite, Solid Film Lubricant

### Product Description

Everlube 29 GMX is a thermally cured, MoS<sub>2</sub>/Graphite based solid film lubricant which utilizes a silicone binder system. This coating is specifically designed to provide lubrication in higher temperature environments. It also provides an extremely low coefficient of friction, very good chemical resistance, and good wear life properties. Everlube 29 GMX also provide very good anti-seizing properties in a wide variety of applications.

### Features / Benefits

- Excellent coefficient of friction
- Very good chemical resistance
- Good wear life
- Ideal for higher load carrying applications

### Markets

- Mechanical Components
- Industrial Machinery
- Chemical Processing
- Aerospace/Defense

### Typical Applications

- Virtually all fasteners
- Threaded connectors and disconnects
- Bearings, gears, splines and cams
- Pivot joints and linkages

### Physical Properties

Lubricating Solid:	MoS <sub>2</sub> , Graphite
Binder:	Silicone
Color and Appearance:*	Matt gray/black finish
Carrier:	Solvent Borne
Solids (by weight):*	36% to 40%
Density:*	8.8 ± 0.5 lb/gal (1054 ± 60 grams/liter)
Flash Point:	24°F (-4°C)
Volatile Organic Compound:	654 grams/liter (5.45 lb/gal)
Theoretical Coverage: <sup>1</sup>	802 ft <sup>2</sup> /gal @ 0.5 mils (19.6 m <sup>2</sup> /liter @ 12.7 microns)
Alternative or Repair Coatings:	Air dry alternatives for Everlube 29 GMX is Lubri-Bond HT.

### Processing Information<sup>2</sup>

Dry Film Thickness	0.2 to 0.7 mils (5 to 18 microns)
Dilution / Cleanup Solvent: <sup>2</sup>	MEK, toluene, xylene, or 50/50 blend of MEK/toluene
Dilution Ratio:	Concentrate to 1:3 (Product to Solvent) by volume
Cure Cycle: <sup>2</sup>	40 to 75 min. @ 400° F to 500° F at part metal temperature
Suggested Pretreatment:	Grit Blast and/or Phosphate
Suggested Application Methods:	Dip Spin <input checked="" type="checkbox"/> Spray <input checked="" type="checkbox"/>

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

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### Typical Functional Properties

	<u>ASTM Test Method</u>	<u>Value</u>
Corrosion Resistance		
Test Panel	ASTM B117	72 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	.02 - .04
Operating Temperature Range		-200° to 800°F (-129° to 427°C)
Load Carrying Capacity	ASTM 2625, Method B	< 100,000 psi
Wear Life	ASTM 2625, Method A	< 60 minutes
Film Adhesion	STM D-2510, Method A	Pass
Gloss (at 60° F)		< 10
Pencil Hardness	ASTM D-3363	2B

### 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	Pass	Distilled Water	Pass
Skydrol 500:	N/R	Jet Fuels (JP-4):	Pass
Hydraulic Fluids:	Pass	Trichloroethylene:	N/R
Anti-Icing Fluids:	Pass	Standard Test Fluid (TT-S-735, Type III) <sup>3</sup>	Pass
HD Lubricating Oil (MIL-L-2104), Grade 10 <sup>3</sup>	Pass	Aircraft Turbine Lubricating Oil (MIL-L-23	Pass
Hydraulic Fluid (MIL-H-5606) <sup>33</sup>	Pass	Non-Petroleum Hydraulic Fluid (MIL-H-84	Pass
Aircraft Lubricating Oil (MIL-L-7808) <sup>3</sup>	Pass	Aircraft Turbine Oil (MIL-L-7808) <sup>3</sup>	Pass

Note: Chemical Resistance may vary depending on the cure cycle. N/R = Not Recommended

### Additional Information

**Shelf Life** One year from date of shipment, stored in a factory sealed container between the and temperatures, 40° to 90°F. Coatings are thermally stable, but we do not recommend Storage: prolonged exposure outside of the specified temperature range listed above.

**Packaging:** Everlube® 29 GMX is available in 5-Gallon Pail, Gallon

**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.

<sup>1</sup> Based on 100% transfer efficiency at a dry film thickness of 0.001 inch (25 microns).

<sup>2</sup> Contact Technical Services for additional options.

<sup>3</sup> Specific chemical tested per the specification requirements.

Issue Date: 12/10/02, Latest Revision Date: 10/16/03

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