Technical Data

Everslik® 1301

Protective Coatings

Morgan Advanced Ceramics
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Product Description

Everslik 1301 is a specially bonded solid film lubricant especially formulated for the heavy-duty industrial market. It provides good lubricity and corrosion resistance and prevents galling and seizing. It has found great acceptance in the petrochemical industry, especially on threaded fasteners and jack screws.

Features / Benefits

- Very good wear resistance
- Very good chemical resistance
- Good abrasion resistance
- Good corrosion resistance

Markets

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

Typical Applications

- Various fasteners
- Pumps and valves
- Fittings and impellers
- Actuator stems and shafts

Physical Properties

Lubricating Solid:	MoS2
Binder:	High Molecular Weight Phenolic
Color and Appearance:*	Matte Gray Finish
Carrier:	Solvent Borne
Solids (by weight):*	32% to 36%
Density:*	8.7 ± 0.5 lb/gal (1042 ± 60 grams/liter)
Flash Point:	24°F (-4°C)
Volatile Organic Compound:	686 grams/liter (5.72 lb/gal)
Theoretical Coverage:[1]	674 ft²/gal @ 0.5 mils (16.5 m²/liter @ 12.7 microns)
Alternative or Repair Coatings:	N/A

Processing Information[2]

Dry Film Thickness	0.3 to 1 mils (8 to 25 microns)
Dilution / Cleanup Solvent:[2]	MEK or 600 Solvent
Dilution Ratio:	1:1 to 3:1 (Solvent to Product)
Cure Cycle:[2]	1 hr @ 300°F
Suggested Pretreatment:	Grit Blast and/or Phosphate

Suggested Application Methods: Dip Spin ☑ Spray ☑

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

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Typical Functional Properties

	ASTM Test Method	Value
Corrosion Resistance		
Test Panel	ASTM B117	> 500 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	.04 - .06
Operating Temperature Range		-100° to 300°F (-73° to 149°C)
Load Carrying Capacity	ASTM 2625, Method B	> 250,000 psi
Wear Life	ASTM 2625, Method A	> 250 min.

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		

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:	Everslik® 1301 is available in 5-Gallon Pail, Gallon, Quart
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.
[1] Based on 100% transfer efficiency at a dry film thickness of 0.001 inch (25 microns).
[2] Contact Everlube Products Technical Services for additional options.
[3] Specific chemical tested per the specification requirements.

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