

Technical Data



Everlube® Products

Surface Technologies Division

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Perma-Slik® RTAC

Air Dry, PTFE Solid Film Lubricant

Product Description	
Perma-Slik RTAC is a PTFE based solid film lubricant with an organo-metallic binder systems. This coating provides very good wear life, thermal stability and performs best in lighter load carrying applications. Generally, this coating will dry to the touch in less than 5 minutes. Perma-Slik RTAC is purchased by a wide variety of markets, including Medical and Industrial.	
Features / Benefits	
<ul style="list-style-type: none">• Very good corrosion resistance• Fair chemical resistance	<ul style="list-style-type: none">• Suitable for Medical ISO 10993 bio-compatibility testing• Ideal for field applications
Markets	Typical Applications
<ul style="list-style-type: none">• Industrial Machinery• Mechanical Components• Fabricated Metal Parts• Medical	<ul style="list-style-type: none">• Pump and valve components• Springs and coils• Slides, guides, and rails• Surgical devices
Physical Properties	
Lubricating Solids	PTFE
Binder	Organic-Metallic
Color and Appearance*	White/translucent finish
Carrier	Solvent borne
Solids (by weight)*	25% to 29%
Density*	7 ± 0.5 lb/gal (839 ± 60 grams/liter)
Flash Point	15°F (-9°C)
Volatile Organic Compound	6 grams/liter (0.05 lb/gal)
Theoretical Coverage ¹	648 ft ² /gal @ 0.5 mils (15.8 m ² /liter @ 12.7 microns)
Alternative or Repair Coatings:	N/A
Processing Information	
Dry Film Thickness	0.3 to 1 mils (8 to 25 microns)
Dilution / Cleanup Solvent	Toluene or heptane. Xylene or VM&P mineral spirits
Dilution Ratio	1:1 to 2:1 (Solvent to Product)
Cure Cycle	1 to 4 hr. @ 65°F to 85°F at greater than 50% relative humidity
Suggested Pretreatment	Grit blast and/or phosphate
Suggested Application Method	Spray/dip spin
For additional information, please see Processing Bulletin #3000-A	
(Continued)	

Typical Functional Properties

	<u>ASTM Test Method</u>	<u>Value</u>
Corrosion Resistance		
Test Panel	ASTM B117	>250 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	0.02 to 0.06
Operating Temperature Range		-100° to 500°F (-73° to 260°C)
Load Carrying Capacity	ASTM 2714	<20,000 psi
Wear Life	ASTM 2714	>57,000 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		

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

Additional InformationShelf 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:

Perma-Slik® RTAC is available in 5-Gallon Pail, Gallon, 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: 07/10/03, Latest Revision Date: 4/21/08