

Technical Data

Lube-Lok[®] 4253

Graphite, Solid Film Lubricant

**CURTISS -
WRIGHT**

Everlube[®] Products

Surface Technologies Division

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Product Description

Lube-Lok 4253 is a thermally cured, graphite/Indium/silver based solid film lubricant with a high molecular weight phenolic binder system. This coating is specifically designed to work to prevent metal to metal contact when used in presence of conventional lubricants such as fuels, oils, greases or other fluid environments. Lube-Lok 4253 also provides a low coefficient of friction and good chemical resistance. Specifications for this product can be found at: <http://www.everlubeproducts.com/products>.

Features / Benefits

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|---|--|
| <ul style="list-style-type: none">• Excellent wear life• Excellent coefficient of friction | <ul style="list-style-type: none">• Performs well in the presence of fuels, oils, and greases• Good thermal stability |
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Markets

- Mechanical Components
- Industrial Machinery and Equipment
- Aerospace/Defense
- Automotive

Typical Applications

- Camshafts, connecting rods
- Fuel pump components
- Piston Skirts
- Engine components

Physical Properties

Lubricating Solid:	Graphite, Indium and Silver
Binder:	High molecular-weight phenolic
Color and Appearance:*	Matte, dark gray finish
Carrier:	Solvent borne
Solids (by weight):*	24% to 26%
Density:*	9 ± 0.5 lb/gal (1078 ± 60 grams/liter)
Flash Point:	37°F (3°C)
Volatile organic compound	744 grams/liter (6.2 lb/gal)
Theoretical Coverage: ¹	866 ft ² /gal @ 0.5 mils (21.2 m ² /liter @ 12.7 microns)
Alternative or Repair Coatings:	N/A

Processing Information

Dry film thickness	0.2 to 0.5 mils (5 to 13 microns)
Dilution / Cleanup solvent:	6600 solvent, 1,4 dioxane, or 4000 solvent
Dilution Ratio:	1:1 to 1:3 (product:solvent)
Cure Cycle:	90 minutes @ 375°F ± 25°F
Suggested pretreatment:	Grit Blast and/or phosphate
Suggested application methods:	Spray

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

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	<u>ASTM Test Method</u>	<u>Value</u>
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	Good
Coefficient of Friction	ASTM D2714	.04 to .08
Operating Temperature Range		-300°F to 450°F (-184°C to 232°C)
Load Carrying Capacity	ASTM 2625, Method B	<100,000 psi
Wear Life	ASTM 2625, Method A	30 minutes

Additional Information

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°F to 100°F. Coatings are thermally stable, but we do not recommend prolonged exposure outside of the specified temperature range listed above.

Packaging: Lube-Lok 4253 is available in gallons and quarts

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 of 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: 10/31/02, Latest Revision Date: 10/16/03