

Technical Data

Everlube[®] 6155

Aluminized Barrier Coating

**CURTISS -
WRIGHT**

Everlube[®] Products

Surface Technologies Division

100 Cooper Circle | Peachtree City, GA 30269

T: 770.261.4800 | F: 770.261.4805 | 800-428-7802

| Product Description | |
|---|--|
| Everlube 6155 is an aluminized barrier coating specially formulated to maximize adhesion and corrosion protection when applied to rare earth magnets. The coating is very durable and provides excellent chemical and corrosion resistance. | |
| Features / Benefits | |
| <ul style="list-style-type: none">• Good abrasion resistance• No lubricating properties | <ul style="list-style-type: none">• Excellent solvent and chemical resistance• Outstanding corrosion resistance |
| Markets | Typical Applications |
| <ul style="list-style-type: none">• Electronics• Automotive• Fabricated metal parts• Aerospace/defense | <ul style="list-style-type: none">• Rare earth magnets• Actuator stems and shafts• Pump and valve components• Fitting and impellers |
| Physical Properties | |
| Lubricating Solids: | n/a |
| Binder: | Proprietary blend |
| Color and Appearance:* | Smooth silver-gold satin finish |
| Carrier: | Solvent borne |
| Solids (by weight):* | 34% to 38% |
| Density:* | 8.2 lb/gal ± 0.5 (983 ± 60 grams/liter) |
| Flash Point (T.C.C.): | 24°F (-4°C) |
| Volatile Organic Compound: | 625 grams/liter (5.2 lbs/gal) |
| Theoretical Coverage: ¹ | 712 ft ² /gal @ 0.3 mil (17.5 m ² /liter @ 12.7 microns) |
| Processing Information ² | |
| Dry Film Thickness | 0.3 to 1.0 mils (8 to 25 microns) |
| Dilution/Cleanup Solvent: ² | MEK, 642 solvent or 50/50 MEK/Toluene |
| Dilution Ratio: | 2 part solvent:1 part concentrate (by volume) adjust as needed. |
| Cure Cycle: ² | 1 hour @ 375°F ± 25°F (1 hour @ 191°C ± 14°C) |
| Suggested Pretreatment: | Grit blast and/or phosphate |
| Suggested application Methods: | Spray |
| For additional information, please see Processing Bulletin #3000-A | |

Typical Functional Properties

| | <u>ASTM Test Method</u> | <u>Value</u> |
|-----------------------------|-------------------------|--------------------------------------|
| Corrosion Resistance | | >500 hours |
| Test Panel | ASTM B-117 | 0.8 mils on grit blasted steel panel |
| Test Panel Coating Method | | |
| Abrasion Resistance | ASTM D-4060 | <40 mg/1000 cycles |
| Coefficient of Friction | ASTM D-2714 | n/a |
| Operating Temperature Range | | -300°F to 400°F (-184°C to 204°C) |
| Load Carrying Capacity | ASTM 2625, method B | n/a |
| Wear Life | ASTM 2625, Method A | n/a |

Chemical Resistance (ASTM D-2510, Method C)

| | | | |
|--|------|-------------------------------|------|
| Hydrocarbon Test Fluids TT-S-735, Method C | Pass | Trichloroethylene, O-T-634 | Pass |
| Aviation Fuel, MIL-G-5572, Grade 115/45 | Pass | 1,1,1 Trichloroethane | Pass |
| Methyl Ethyl Ketone | Pass | Anhydrous Ethanol | Pass |
| Toluene | Pass | Methyl Phenyl Silane (DC-550) | 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 (4°C to 38°C). Coatings are thermally stable, but we do not recommend prolonged exposure outside of the specified temperature range listed above

Packaging: Everlube 6155 is available is gallon, 5-gallon pail, and 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 0.0005 inch (12.5 microns).

² Contact Technical Services for additional options

³ Specific chemicals tested per the specification requirements.

Issue Date: 02/23/05 Rev. 5/23/17

LEF/kr