# Krytox™ AUT 2E45

## Performance Lubricants

## Grease for Electric Motors

# Product Information

Krytox™ greases offer the potential for lubed-for-life properties in demanding electrical motor service. Krytox™ greases are non-oxidizing, water-resistant, nonflammable, and chemically inert.

Krytox™ greases contain perfluoropolyether (PFPE) oil and a polytetrafluoroethylene (PTFE) thickener. The PFPE oil and PTFE thickener will not oxidize and gum up like ordinary synthetic or hydrocarbon-based greases. Krytox™ greases are recommended by many major bearing manufacturers for long-life lubrication in severe applications. The superior film-forming capability of Krytox™ greases provide a thicker oil layer and reduce wear. Krytox™ greases are compatible with metals and most seal materials, but require removal of all old lubricants from the motor bearings before application.

### Benefits and Features

Krytox™ greases offer the following benefits and features.

| Feature | Benefits |
|---|---|
| Unsurpassed oxidation resistance of base oil | PFPE will not oxidize and gum up with age and use. Will not break down with high temperatures experienced in electric motors. Operating temperature range from –44 to 200 °C (–47 to 392 °F) |
| Advanced PTFE thickener | Special high efficiency thickener will not oxidize or break down with shear |
| Lubed-for-life potential | Typically, no need to re-lubricate bearings during lifetime of electric motor |
| Excellent corrosion resistance | Additives offer resistance to corrosion and rust during storage and in wet environments |

### Typical Properties

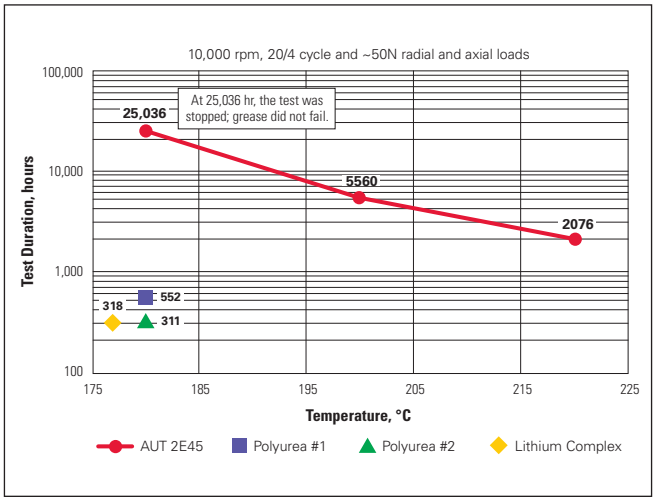
| Property | Krytox™ AUT 2E45 Grease |
|---|---|
| NLGI Grade | 2 |
| Color | White |
| Base Oil | PFPE |
| Base Oil Viscosity, ASTM D 445<br>cSt at 40 °C (104 °F)<br>cSt at 100 °C (212 °F) | <br>100<br>12.5 |
| Viscosity Index, ASTM D 2270 | 119 |
| Thickener | PTFE |
| Anti-Corrosion Additive | Proprietary |
| Specific Gravity at 0 °C (32 °F) | 2.0 |
| Penetration Change after 100,000 strokes, ASTM D 217, mm/10 | 15 |
| Bearing Life, hr, ASTM D 3336, 10,000 rpm at 180 °C (356 °F)* | 25,000+ |
| Operating Temperature Range, °C (°F) | –44 to 200 (–47 to 392) |
| Dropping Point, °C (°F) | N/A |
| Oil Separation at 99 °C (210 °F), ASTM D 6184 | 4% typical |
| Low Temperature Torque, g·cm at –40 °C (–40 °F), ASTM D 1478<br>Starting<br>Running | <br>5,800<br>1,900 |
| Low Temperature Torque, g·cm at –20 °C (–4 °F), ASTM D 1478<br>Starting<br>Running | <br>650<br>220 |
| Emcor Corrosion, ASTM D 6138 | 0, 1 (no rust) |
| Rust Protection, ASTM D 1743 | Pass |
| Copper Corrosion Resistance, ASTM D 4048 | 1B max. |
| Water Washout, ASTM D 1264, % | 1.5 |

* The ASTM D 3336 at 180 °C (356 °F) test for Krytox™ AUT 2E45 grease was still running when discontinued at 25,036 hr. Actual run time would have been longer.

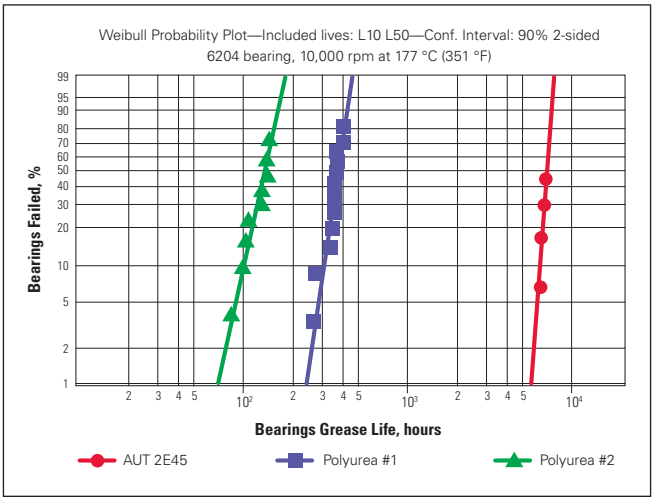
Note: For application in wide profile bearings (e.g., cylindrical, spherical roller) at Dn > 70,000 (bearing mean diameter x rpm), please contact your Chemours technical representative for application assistance.

Chemours™

## ASTM D 3336—Grease Life in Ball Bearings—Krytox™ AUT 2E45 Lubricant




## Bench Bearing Life Test—ROF+—Krytox™ AUT 2E45 Lubricant




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For product information, industry applications, technical assistance, or global distributor contacts, visit krytox.com or within the U.S. and Canada, call 1-844-773-CHEM/2436 or outside of the U.S., call 1-302-773-1000.

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