



# 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                                                                                                      |

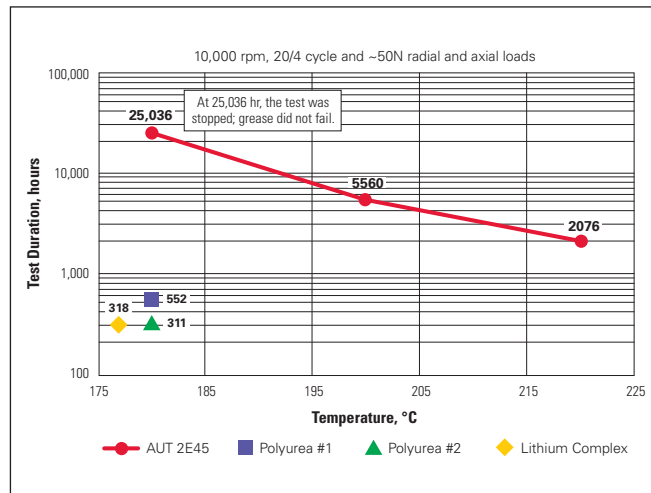
### Typical Properties

| 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)   | 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 | 5,800<br>1,900          |
| Low Temperature Torque, g·cm at -20 °C (-4 °F), ASTM D 1478<br>Starting<br>Running  | 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                     |

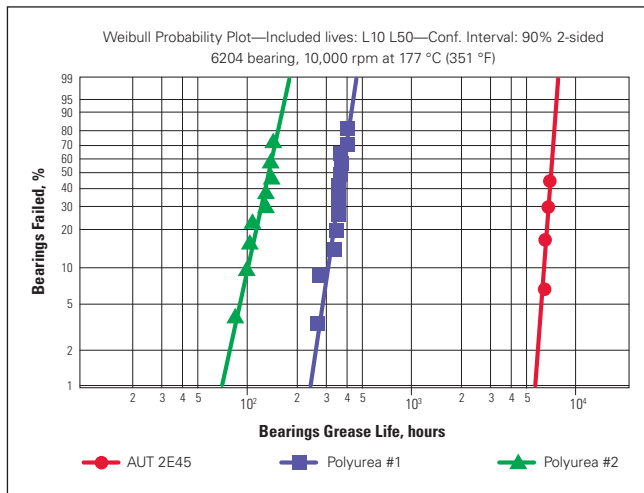
\* The ASTM D 3336 at 180 °C (356 °F) test for Krytox™ AUT 2E45 grease was still running when discontinued at 25,036 hr. Actual run time would have been longer.

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.

## 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](http://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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Replaces: K-23698-6

C-10071 (7/15)