

## 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<sup>™</sup> 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<sup>™</sup> greases are recommended by many major bearing manufacturers for long-life lubrication in severe applications. The superior film-forming capability of Krytox<sup>™</sup> greases provide a thicker oil layer and reduce wear. Krytox<sup>™</sup> 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**

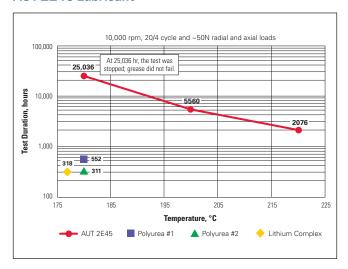
Property	Krytox™ AUT 2E45 Grease	
NLGI Grade	2	
Color	White	
Base Oil	PFPE	
Base Oil Viscosity, ASTM D 445 cSt at 40 °C (104 °F) cSt at 100 °C (212 °F)	100 12.5	
Viscosity Index, ASTM D 2270	119	
Thickener	PTFE	
Anti-Corrosion Additive	Proprietary	
Specific Gravity at 0 °C (32 °F)	2.0	
Penetration Change 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 Starting Running	5,800 1,900	
Low Temperature Torque, g·cm at –20 °C (–4 °F), ASTM D 1478 Starting Running	650 220	
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 ACTM D 00000 of 100 00 (000 00) food for 100 00 40 or 100 00		

<sup>\*</sup>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

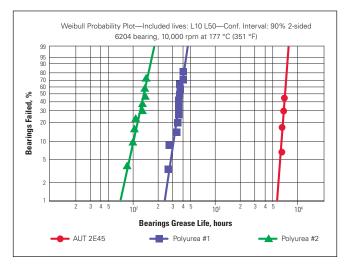
representative for application assistance.



# 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 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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