

DUPONT™ KRYTOX® LUBRICANT AUT 2E45 GREASE FOR ELECTRIC MOTORS

DuPont™ Krytox® greases offer the potential for fill-for-life lubrication in demanding electrical motor service. Krytox® greases are non-oxidizing, water resistant, non-flammable 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 (111 to +392 °F)
Advanced PTFE thickener	Special high efficiency thickener will not oxidize or break down with shear
Fill-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

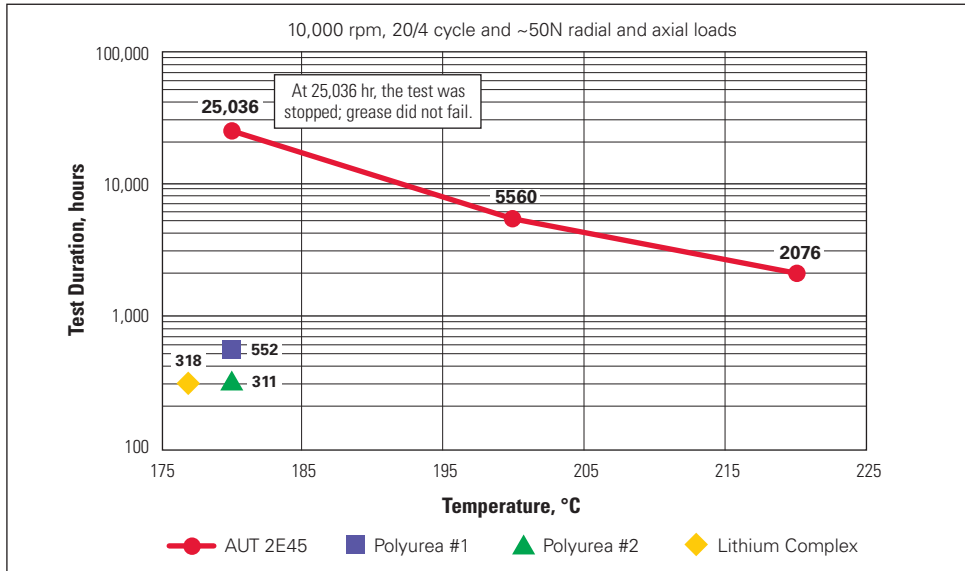
Typical Properties

Property	AUT 2E45
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
Spg 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 177 °C (351 °F)*	25,000+
Operating Temperature Range, °C (°F)	-44 to +200 (111 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 (104 °F), ASTM D 1478 Starting Running	5800 1900
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

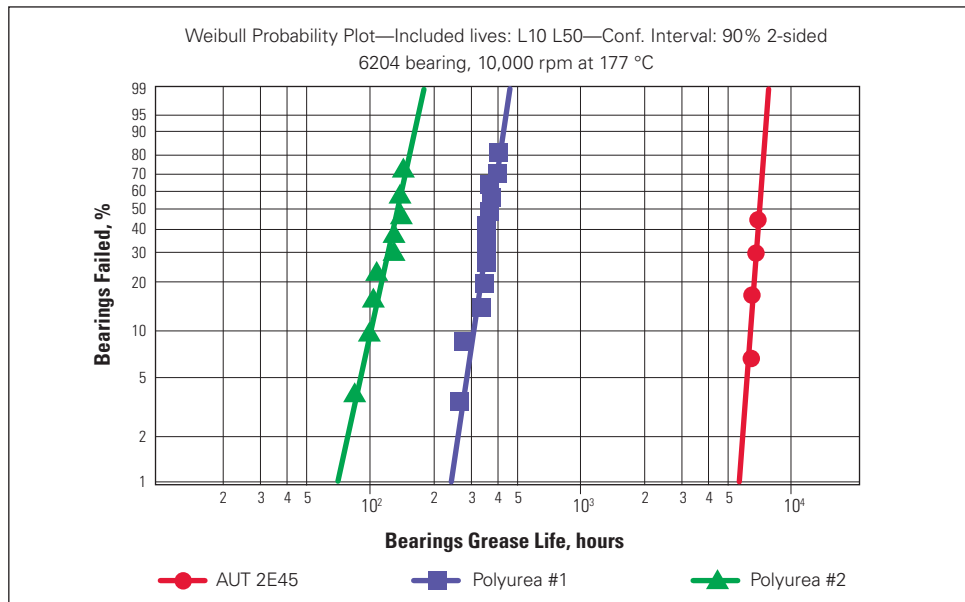
* The ASTM D 3336 at 177 °C (351 °F) test for Krytox® AUT 2E45 was still running when discontinued at 25,036 hrs. Actual run time would have been longer.

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

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



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



DuPont™ Krytox® Lubricants

Extreme Conditions. Extreme Performance.

For product information, industry applications, technical assistance, or global distributor contacts, visit krytox.com or within the U.S. and Canada, call 1-800-424-7502.

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