

## High Performance Lubricants for Automotive Component Bearings

### Product Information

As automakers strive for extended warranties, many designers are discovering the value of Krytox™ high performance synthetic lubricants from Chemours.

#### Description

Krytox™ is a Chemours trademark for a family of perfluoropolyether (PFPE) synthetic oils and greases. Krytox™ lubricants exhibit long-term wear resistance, superior lubricity, thermal stability up to 343 °C (650 °F), and chemical resistance in the most severe environments. With these unique benefits, Krytox™ oils and greases offer design advantages in a broad range of high-performance automotive bearings.

#### Applications

Krytox™ lubricants are commonly used to extend service life of chassis components and power train components including:

- Anti-lock brakes
- Alternators
- Clutch release bearings
- Belt pulleys
- CV/universal joints
- Wheel bearings
- Cooling fan motors

#### Design Advantages with Krytox™ Lubricants

- Increase temperature rating
- Maintenance-free operation
- Extended service life
- Resistance to extreme environments
- Nonflammability
- Low noise operation

#### Recommended Grease Fill

Due to superior performance and higher specific gravity, grease fill with Krytox™ lubricants can be reduced without reducing service life. Medium-speed bearings with DN values (inner ID in mm x rpm) of 50,000–200,000 can be filled 35%. For higher speed applications, grease fill can be reduced to 25%.

#### Film Strength Durability

Krytox™ lubricants have been proven to exhibit superior film strength durability under extreme loads compared to synthetic hydrocarbons, advanced esters, polyalkyl aromatics, etc. Supporting test results have been published by the NASA Lewis Research Center in ASLE transactions.

#### Superior Bearing Life

Krytox™ lubricants have been tested per ASTM and DIN bearing tests at speeds ranging from 10,000–20,000 rpm to demonstrate extended service life.



Several grades of Krytox™ oil and grease are suitable for automotive use, depending on the application type and temperature range encountered. The table below lists the

most common grades currently being used. More detailed data is available on the web at [www.krytox.com](http://www.krytox.com).

Krytox™ Greases	Viscosity, cSt	Temperature Range, °C (°F)
GPL 204, GPL 214, GPL 224, GPL 294, GPL 2E4, XP2A4	60	-51-179 (-60-354)
AUT 2E45, AUT 2245, AUT 2045, AUT 2A45	100	-40-200 (-40-392)
GPL 205, GPL 215, GPL 225, GPL 295, GPL 2E5, XP2A5, XP2C5	160	-36-210 (-33-410)

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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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