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

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.

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