



# Krytox<sup>®</sup>

performance lubricants

## Automotive Component Bearings

As automakers strive for extended warranties, many designers are discovering the value of Krytox<sup>®</sup> high performance synthetic lubricants from DuPont.

### Description

Krytox<sup>®</sup> is a DuPont trademark for a family of perfluoropolyether (PFPE) synthetic oils and greases. Krytox<sup>®</sup> 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<sup>®</sup> oils and greases offer design advantages in a broad range of high-performance automotive bearings.

### Applications

Krytox<sup>®</sup> are commonly used to extend service life of chassis components and power train components including:

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

### Design Advantages with Krytox<sup>®</sup>

- 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<sup>®</sup> 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 50–70%. For higher speed applications, grease fill can be reduced to 25–35%.

### Film Strength Durability

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



Krytox® greases are manufactured with a Krytox® GPL oil (100–107) of the required viscosity and are available in these formulations to meet a range of performance needs.

<b>Grease Designation</b>	<b>Description</b>	<b>Characteristics</b>
GPL 20X	Base oil with thickener	Superior lubrication and extended service life
GPL 21X		Moly added to provide superior load carrying ability
GPL 22X		NaNO <sub>2</sub> added for corrosion resistance
GPL 29X		Extreme pressure and corrosion resistance for most severe conditions

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**For more information or technical assistance, call: (800) 424-7502**  
**or visit us on the Web: [www.krytox.com](http://www.krytox.com)**

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### ***United States***

DuPont Performance Lubricants  
Barley Mill Plaza, Bldg. 27  
P.O. Box 80027  
Wilmington, DE 19880-0027  
Phone: (800) 424-7502  
Fax: (302) 892-7091  
E-mail: [krytox@usa.dupont.com](mailto:krytox@usa.dupont.com)

### ***Canada***

DuPont Canada  
Mississauga, Ontario  
Telephone: 800-263-5924  
Fax: 905-821-5321  
E-mail: [products@can.dupont.com](mailto:products@can.dupont.com)

### ***Europe, Mideast, and Africa***

DuPont Europe  
Geneva, Switzerland  
Telephone: +32.3.543.1267  
Fax: +32.3.543.1390  
E-mail: [lubricants@lux.dupont.com](mailto:lubricants@lux.dupont.com)

### ***Asia Pacific—Including India***

DuPont Asia Pacific  
Taipei, Taiwan  
Telephone: 886-2-2514-4434  
Fax: 886-2-2514-4364  
E-mail: [krytox.lubricants@tw.dupont.com](mailto:krytox.lubricants@tw.dupont.com)

### ***Mexico and Central America***

DuPont Mexico  
Mexico City, Mexico  
Telephone: +52-5-722-1150  
Fax: +52-5-722-1149  
[www.dupont.com.mx](http://www.dupont.com.mx)

### ***South America—All Countries***

DuPont South America  
São Paulo, Brazil  
Telephone: 55-11-4166-8601  
Fax: 55-11-4166-8760  
E-mail: [produtos.brasil@bra.dupont.com](mailto:produtos.brasil@bra.dupont.com)

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