

# DuPont™ Krytox® Lubricants Product Selection Guide



**GENERAL PRODUCT  
SELECTION GUIDES**

## Which DuPont™ Krytox® lubricant product is right for your application?

DuPont™ Krytox® perfluoropolyether oils and greases are available in a variety of grades, for many types of applications. This Product Selection Guide provides general properties and cites the technical data reference document where additional information can be found. The H-58505 General Overview gives basic information about all of the grades.

Typical Krytox® lubricant applications include: paint plant conveyor bearings, corrugator and paper machine bearings, robotics, welding machines, high temperature fans, textile equipment, tenter frames, high temperature ovens, conveyor systems in glass and aluminum plants, textile calendar roll bearings, brick kiln car bearings, valve lubrication, ventilation fan bearings, rod mills, valves, valve actuators, automobile alternators, viscous fan clutches, pumps, sealed-for-life bearings, critical equipment where failure cannot be tolerated, and severe service applications.

## Krytox® General Purpose Greases and Oils

The Krytox® GPL 10X oil /20X grease series contains no additives and can be used on components that may come in contact with all chemicals including acids, bases, solvents and other reactive chemicals. Typical applications include valves, bearings, seal barrier fluids, instruments, and oxygen systems.

The Krytox® GPL 21X series contains molybdenum disulfide for extreme pressure (EP) conditions and should be used for slow speed or heavily loaded applications.

The Krytox® GPL 22X series contains sodium nitrite corrosion / anti-wear inhibitor and is ideal for corrosive environments. Typical applications include automotive bearings, sealed pump bearings, electric motor bearings, and general purpose bearings. For more information about general purpose greases and oils, refer to technical data document number H-58510.

Krytox® GPL 29X greases have EP and anti-corrosion additives and have been formulated for applications that need both high load carrying capacity and anti-corrosion protection. For additional information, refer to technical data document H-58544.

Krytox® GPL 2EX lubricants are formulated using new anti-rust additives. This grease is similar to Krytox® GPL 22X series greases but contains a non-nitrite anticorrosion additive. For further information, refer to technical data document H-91820.

## Krytox® Lubricants for Aerospace Applications

Krytox® 143 series oils are clear colorless fluorinated synthetic oils that are non-reactive, nonflammable, safe in chemical and oxygen service, and are long lasting.

Krytox® 240 series greases are white, buttery greases with all of the same properties as the 143 series oils that they are made from, but in a grease form. The Krytox® 240 AZ, 240 AB and 240 AC meet MIL-PRF-27617 general specification.

Refer to H-58519 for additional information on lubricants suitable for the aerospace industry.

## Krytox® Vacuum Pump Fluids

Krytox® vacuum pump fluids are used in vacuum pumps and vacuum systems when controlled vapor pressure, non flammability and non reactivity are needed. Krytox® vacuum pump fluids can be regenerated and reused. For more information about vacuum pump fluids, refer to technical data document H-58530.

## Krytox® Extra High Temperature Products

Krytox® XHT- S and Krytox® XHT-SX greases are high temperature greases. These greases are designed to work best at temperatures over 400 °F (204 °C) but below 572 °F (300 °C). For more specific information, refer to technical literature document H-91818.

Literature	Description
H-58505	General overview of all Krytox® lubricant grades
K-15429	Krytox® lubricant grades for common applications in the chemical, corrugator, power and food processing industries
K-15430	Common competitive PFPE greases and the equivalent grade of Krytox® lubricant
K-16051	Krytox® lubricants that are common for applications in the pulp and paper industry
K-16091	Krytox® lubricants for the power generation industry
K-17393	Krytox® lubricant applications in the textile industry
H-58510	Krytox® General purpose greases and oils
H-58544	Krytox® lubricants for extreme pressure applications, with anti-corrosion additives
H-91820	Krytox® lubricants with non-nitrite anti-rust additives
H-58519	Krytox® oils and greases developed for use in the aerospace industry
H-58530	Vacuum pump fluids
H-91812	Extra High Temperature Products (Krytox® XHT) overview
H-91818	Krytox® XHT grease
H-91814	Krytox® XHT grease with anti-corrosion/anti-wear inhibitors
H-91815	Krytox® XHT grease with special non-melting thickener
H-96903	H-1 Food grade lubricants
K-17396	Krytox® NRT lubricants for reactive gases
H-58548	Krytox® XP lubricants with soluble additives
H-97589	Wide temp range, high vacuum linear PFPE products



Krytox® XHT- AC and Krytox® XHT-ACX (H-91814) greases are high temperature greases that contain anti-corrosion / anti-wear inhibitors. These greases are designed to work best at temperatures over 400 °F (204 °C), but under 572 °F (300 °C). Technical data literature H-91814 provides more details on this product line.

Krytox® XHT- BD, Krytox® XHT-BDX, and Krytox® XHT-BDZ greases are designed for use where temperatures are in the 550 °F to 750 °F range and where there is a danger of melting the standard PTFE thickener. These greases use a special non-melting high temperature thickener that also provides extreme pressure properties and works as a solid lubricant if the base oil is depleted. The grease is slightly tacky, and it will coat the surface and stay in place. For additional information, refer to technical literature document H-91815.

### **Krytox® Lubricant Specialty Products**

Specialty products include:

- H-1 rated food grade lubricants (discussed in more detail in technical literature H-96903);
- Krytox® NRT lubricants for oxygen systems and reactive gases (K-17396);
- Krytox® XP lubricants with soluble additives (H-58548); and
- Wide temperature range, high vacuum linear PFPE products (H-97589).

### **Other Considerations**

Many factors affect the performance of a grease and bearing, and those factors can affect grease and component life as well.

Standard grease consistency is NLGI grade-2 penetration. Sometimes, a harder grade-3 grease or softer grade-1 grease is needed and can be ordered. For example, softer grade-00 or 0 greases are often used in gearboxes.

In bearing applications, different types of bearings place different stresses on grease; ball bearings cause little stress, whereas roller bearings will tend to grind and work the grease severely. This stress can shorten grease life and require more frequent relubrication, or result in the need for more viscous base oil in the grease.

This Product Selection Guide is a starting point to help in the selection of the Krytox® lubricant suitable for your tough application.

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## **DuPont Performance Lubricants Extreme Conditions. Extreme Performance.**

**For more information or for technical assistance, please call  
1-800-424-7502 or contact us at [krytox@usa.dupont.com](mailto:krytox@usa.dupont.com).**

**For international sales and support contacts, visit us at  
[www.lubricants.dupont.com](http://www.lubricants.dupont.com)**



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