DuPont™ Krytox® XHT-RUF and XHT-RUFX

Performance Lubricants

This grease is a special high temperature grease with low oil evaporation that provides antiwear and rusting protection and is compatible with all elastomers and plastics. It has excellent lubrication over a broad temperature range, but is designed to work best at temperatures over 200°C (400°F). It is nonflammable, oxygen-compatible, and chemically inert. Krytox® provides extended lubrication intervals and longer equipment life.

Typical Properties of XHT-RUF Series PFPE Grease

	XHT-RUF	XHT-RUFX
Estimated Useful Range		
°C	–20/300	–10/300
°F	–4/572	14/572
Base Oil Viscosity, cSt		
20°C (68°F)	1,830	2,560
40°C (104°F)	500	738
100°C (212°F)	47	65
Oil Viscosity Index	149	158
Oil Pour Point		
°C	–25	–15
°F	–13	5
Antirust Rating, IP 220 Emcor	Pass	Pass
Antirust Rating, ASTM D-1743	Pass	Pass
Maximum Volatility in 22 hr, %		
204°C (400°F)	<1	<0.75
Appearance	White, creamy consistency	White, creamy consistency
Specific Gravity, 0°C (32°F)	1.99	1.99

This grease is similar to the XHT-AC series greases, but contains a non-nitrite anticorrosion additive that is the salt of an organic acid. The grease is designed to give higher performance in the 204–302°C (400–575°F) ranges. It should be used below 320°C (608°F), where the PTFE thickener could begin to melt. The base oil is an extremely viscous oil that provides good viscosity and lower evaporation at high temperatures.

Typical applications include: paint plant conveyor bearings, corrugator and paper machine bearings, aluminum can manufacturing bearings, 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 bearing grease, and rod mills.

Applications for these lubricants are generally of a critical nature where temperatures are reaching extremes that conventional lubricants cannot handle, and they are expected to be durable in the most aggressive environments. Where failure of components is not an option whether because of durability, warranty, safety, loss of productivity or downtime, Krytox® is the lubricant of choice in a wide range of industries and applications.

Grease is made to a standard NLGI grade 2. PTFE is the standard thickener.

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Krytox® PFPE Oils and Greases

Krytox® PFPE oils are clear, colorless, fluorinated synthetic oils that are nonreactive, nonflammable, safe in chemical and oxygen service, and are long lasting. Krytox® is a perfluoropolyether (PFPE)—also called perfluoroalkylether (PFAE) or perfluoropolyalkylether (PFPAE) with the following chemical structure:

$$F\text{-}(CF\text{-}CF_2\text{-}O)_n\text{-}CF_2CF_3 \quad \text{where } n = 10 \text{ to } 60$$
$$\quad\quad\;\; |$$
$$\quad\quad CF_3$$

The polymer chain is completely saturated and contains only carbon, oxygen, and fluorine. On a weight basis, a typical Krytox® oil contains 21.6% carbon, 9.4% oxygen, and 69.0% fluorine.

Compatibility with Metals

Because of their low surface tensions, Krytox® lubricants easily wet metallic surfaces. Krytox® lubricants are chemically inert and, therefore, have no adverse effect on metals when the temperature is below 288°C (550°F). Above 288°C (550°F), many alloy steels, stainless steels, and other metals such as aluminum alloy, titanium alloy, nickel alloy, and cobalt alloy can be used with Krytox®.

For more information or technical assistance, call: (800) 424-7502

or visit us on the Web: **http://www.krytox.com**

Or call the Krytox® hotline in the **United States** at (800) 424-7502, E-mail: krytox@usa.dupont.com
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