



Food Grade Lubricants

Product Information

Krytox™ greases and oils are high temperature, extreme pressure, water-resistant lubricants for your most demanding needs. They provide stable performance in temperature extremes, and are designed to reduce friction and wear, while extending equipment life in severe duty applications. They are extremely resistant to water washout and give long-term protection for bearings and other equipment. Their wide temperature range allows them to be used in both high and low temperature applications.

The superior film-forming capability of Krytox™ lubricants provides a thicker oil layer and reduces wear. The non-oxidizing nature of the oils makes them last longer. The oils don't gum up as they age, so they won't harden and cause catastrophic failure. These lubricants have superior extreme pressure properties and excellent adhesion, so they stand up to all conditions.

Krytox™ lubricants are commonly used in aerospace, automotive, industrial, and semiconductor applications, as well as solving many other routine lubrication problems.

Typical Applications

Applications for these lubricants are generally of a critical nature, where temperatures are reaching extremes for conventional lubricants. They are durable in the most aggressive environments and are now often considered an integral part of the design.

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. These products are not intended to be used as direct food additives.

Chemical and Environmental Compatibility

While Krytox™ lubricants are non-reactive, they have different chemistries and should not be mixed with other non-perfluoropolyether (PFPE) products.

These lubricants are inert and will not react with any materials they may come in contact with. The polymeric nature of these products is extremely resistant to moisture, so they stay in place during cleaning. Cleaners and disinfectants, both acidic and caustic types, do not affect them. Steam and high temperatures will not damage them. They do not damage plastic or elastomer seals, or cause corrosion to metals. They are nonflammable and safe for use in oxygen service. Krytox™ oils and greases are silicone-free. They do not contain any VOC materials or chlorine and are not hazardous to the atmosphere or ozone layer. They are biologically and environmentally inert.

Storage and Shelf Life

Krytox™ grease and oil lubricants have an indefinite shelf life, if unopened and stored in a clean dry location.

Product Properties of Krytox™ Food Grade Lubricants

| Typical Properties | Krytox™ FG 34 | Krytox™ FG 40 |
|--|---------------------------|----------------------|
| NLGI Grade | 2 | — |
| Thickener | PTFE | — |
| Anti-Rust | — | No |
| Flash Point | None | None |
| Volatility at 22 hr | — | 204 °C (399 °F) = 3% |
| Color | White, creamy consistency | Clear, colorless oil |
| Base Oil Viscosity, cSt at 40 °C (104 °F) at 100 °C (212 °F) | 240 160 | — 18 |
| Viscosity Index | 134 | 125 |
| Pour Point, °C (°F) | — | -35 (-31) |
| Density, g/cc at 20 °C (68 °F) | — | 1.92 |
| Operating Range, °C (°F) | -30-260 (-22-500) | -36-204 (-33-400) |
| Rust Prevention, ASTM D1743 | Pass | — |
| Four Ball EP Weld, ASTM D2596, kg | None | — |
| Four Ball EP LWI, ASTM D2596 | None | — |

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For product information, industry applications, technical assistance, or global distributor contacts, visit 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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