DuPont™ Krytox® RUF 100 and RUF 150 Greases

PRODUCT INFORMATION

Based on perfluoropolyether (PFPE) oils, DuPont™ Krytox® oils and greases are used in extreme conditions such as continuous high temperatures up to 300 °C (572 °F), and higher temperatures for shorter periods, depending on product grade limits. Chemically inert, these synthetic fluorinated lubricants are nonflammable and are also safe for use in oxygen service. Krytox® oils and greases do not damage plastics or elastomers, nor cause corrosion to metals. They are commonly used as lubricants in aerospace, automotive, industrial and semiconductor applications as well as in solving many other routine lubrication problems.

The RUF 100 and RUF 150 greases contain a new organic anticorrosion/antiwear inhibitor and are ideal for bearings where rust protection and long life is desired.

Typical Properties of Krytox® RUF 100 and RUF 150 Greases

	RUF 100	RUF 150
Anti-Corrosion Additive	Yes	Yes
Extreme Pressure Additive	No	No
Appearance	White, Creamy Consistency	White, Creamy Consistency
Antitrust Rating, ASTM D-1743	Pass	Pass
Estimated Useful Range		
°C	≤40/200	≤36/204
°F	≤40/392	≤33/399
Base Oil Viscosity, cSt		
20°C (68°F)	310	522
40°C (104°F)	100	160
100°C (212°F)	12.5	18
Base Oil Volatility, % in 22 hr		
121°C (250°F)	2	1
204°C (400°F)	11	<7
Oil Separation, wt% after 30 hr		
99°C (210°F)	4	4
204°C (400°F)	12	12
Dropping Point	NA	NA
Standard NLGI Grade	2	2
Specific Gravity at 0°C (32°F), g/cm^3	1.99	1.99

These values are typical properties and are not specifications.

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Typical Applications

Applications for Krytox® RUF 100 and RUF 150 greases are generally of a critical nature. Temperatures in all industries are reaching extremes for conventional lubricants and consequently, today's lubricants are expected to be durable in the most aggressive environments. In fact, high performance lubricants are now often considered an integral part of the design.

Krytox® greases are silicone-free. They do not contain any VOC materials or chlorine and are not hazardous to the atmosphere or ozone layer. Krytox® greases are biologically and environmentally inert.

Where failure of components is not an option whether because of durability, warranty, safety, loss of productivity or downtime, DuPont™ Krytox® lubricants are the ideal choice in a wide range of industries and applications.

Packing the Bearing

New unlubricated bearings often have rust preventive oils in them to prevent damage while they are in storage before use. New bearings should be inspected for damage and cleanliness before use. The greases or preservative oils need to be removed prior to using Krytox® as a lubricant. Failure to do so could result in reduced bearing life. Bearing life tests on uncleaned bearings have shown reduced life in high-temperature, high-speed tests where the bearing was filled with a minimum amount of grease. The preservatives coat the metal surface to prevent rusting so they can also prevent the grease from adhering, causing them to be thrown off by the action of the bearing. They also will oxidize and harden and can create debris that will contaminate the grease.

Packaging

Krytox® greases are available in 2 oz and 8 oz tubes, 0.5 kg and 1 lb containers, 0.8 kg/1.75 lb cartridges, 20 kg containers, 100 kg drums, 5 gal pails and other grease drum sizes.

Storage and Shelf Life

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

For more information or for technical assistance, please call us at 1-800-424-7502 or contact us at krytox@usa.dupont.com

For international sales and support contacts, visit us at www.lubricants.dupont.com

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