

# DuPont™ Krytox® AUT 2245 Grease\*

## PRODUCT INFORMATION

DuPont™ Krytox® oils and greases are based on perfluoropolyether (PFPE) oils. These synthetic fluorinated lubricants are used in extreme conditions such as continuous high temperatures up to 288°C (550°F) and higher temperatures for shorter periods, depending on product grade limits. Chemically inert and safe for use around hazardous chemicals, these 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.

Krytox® AUT 2245 grease addresses a broad range of applications from o-ring to bearing lubrication over a wide temperature range where corrosion is a potential issue. It is thickened with polytetrafluoroethylene (PTFE) and contains an anti-corrosion additive.

### Typical Applications

Applications for Krytox® lubricants are generally of a critical nature. These lubricants are expected to be durable in the most aggressive environments. Temperatures in all industries are reaching extremes for conventional lubricants, and lubricants 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 down time, Krytox® is the lubricant of choice in a wide range of industries and applications. Krytox® AUT 2245 is particularly useful in automotive and heavy transportation equipment. Specific applications include alternators, viscous fan clutch bearings, and idler bearings.

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.

\*Formerly known as KDP 4642 developmental grease.

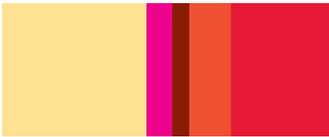
### Typical Properties

Anti-Corrosion Additive	Yes
Extreme Pressure Additive	No
Appearance	White, Creamy Consistency
Estimated Useful Temperature Range	-44°C to 200°C -47°F to 392°F
Base Oil Viscosity, cSt	
20°C (68°F)	310
40°C (104°F)	100
100°C (212°F)	12.5
200°C (392°F)	2.5
Oil Separation, wt% after 30 hr	
99°C (210°F)	4
Max. Oil Volatility, % in 22 hr, ASTM D2595	
66°C (150°F)	0.1
121°C (250°F)	0.5
204°C (400°F)	2
Dropping Point	NA
Standard NLGI Grade	2
Specific Gravity at 0°C (32°F), g/cm <sup>3</sup>	2.0

These values are typical properties and are not specifications.



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### Preparing Bearings

New unlubricated components and bearings are typically coated with rust preventive oils to prevent corrosion while they are in storage before use. New components should be inspected for damage and cleanliness before use. The greases or preservative oils need to be removed when using DuPont™ Krytox® as a lubricant. Failure to do so could result in reduced component 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 it to be thrown off by the action of the bearing. The preservatives will also oxidize and harden and can create debris which 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

This Krytox® AUT 2245 grease should have an indefinite shelf life if the package remains unopened and is stored in a clean, dry and cool location.



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