



Krytox™ AGL 683

Performance Lubricants

Grease for Aviation Gearbox Applications

Product Information

Krytox™ AGL 683 is a yellow, creamy grease based on perfluoropolyether (PFPE) oil and thickened with polytetrafluoroethylene (PTFE). This product is specifically designed to lubricate gears and their associated bearings under relatively low temperature conditions.

All Krytox™ oils and greases are synthetic fluorinated lubricants, designed for use in critical applications and the most aggressive environments. They perform under extreme, continuous high temperatures up to 280 °C (536 °F) and in even higher temperatures for shorter periods, depending on product grade limits. They are nonflammable, chemically inert, and safe for use with reactive gas service and hazardous chemicals. They do not damage plastics or elastomers, nor cause corrosion to metals. Krytox™ oils and greases are silicone-free. They do not contain any VOC materials or chlorine. Krytox™ lubricants are commonly used in aerospace, automotive, industrial, and semiconductor applications, as well as many routine lubrication applications.

Krytox™ AGL 683 grease contains extreme pressure and anti-corrosion additives for applications in corrosive atmospheres or with significant shock loading, where an element experiences greater mixed film or boundary lubrication than full film or hydrodynamic lubrication. Krytox™ AGL 683 grease will also provide superior performance in applications prone to significant fretting corrosion.

Typical Properties	Krytox™ AGL 683
Anti-Corrosion Additive	Yes
Extreme Pressure Additive	Yes
Appearance	Yellow, Creamy Consistency
Estimated Useful Temperature Range	-60 °C (-76 °F) to 120 °C (248 °F)
Base Oil Viscosity, cSt 40 °C (104 °F)	32
Maximum Oil Volatility % in 22 hr D972 (modified)	
121 °C (250 °F)	5
204 °C (400 °F)	15
Dropping Point	NA
Standard NLGI Grade	0
Specific Gravity at 0 °C (32 °F), g/cm ³	2.10

These values are typical properties and not product specifications.

Cleaning and Packing the Bearing

Inspect new components for damage and cleanliness before use. New non-lubricated components and bearings are typically coated with rust preventive oils to prevent damage while they are in storage. The oils must be removed when using Krytox™. Failure to do so could result in reduced component life. Bearing life tests on uncleaned bearings filled with a small amount of grease have shown reduced life in high temperature, high speed tests. The preservatives can prevent the grease from adhering to the bearing and can oxidize and harden, contaminating the grease with debris.

Storage and Shelf Life

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

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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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