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Product Description Sheet

Loctite®/DuPont® Krytox® RFE PFPE High Performance Lubricant

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PRODUCT DESCRIPTION

LOCTITE®/DuPont® Krytox® RFE PFPE High Performance Lubricant is an anti-corrosion grease that has excellent lubrication and wear resistance over a broad temperature range, -15°F to 500°F (-26°C to 260°C), and allows extended lubrication intervals and longer equipment life. This product provides protection from rusting in ambient conditions as well as high temperatures.

PRODUCT BENEFITS

- Thermally stable
- Chemically resistant
- Oxygen compatible*
- Compatible with most plastics
- Nonflammable
- Non-toxic
- Outperforms petroleum based grease
- High load carrying capabilities

* This lubricant has been evaluated by the German Federal Institute for Materials Testing (Bundesanstalt für Materialprüfung, BAM) for reactivity with gaseous oxygen (BAM 8104-4110). Results of BAM 8104-411 conclude that use of this lubricant should only be used in the following oxygen rich (gaseous) environments under the conditions stated below. The liquid oxygen sensitivity test was in accordance to Marshal Space Flight Center Specification 106B and found to have no reaction after 20 trials. Use of this lubricant under conditions other than stated below is not recommended. Each prospective user should test the proposed application thoroughly before repetitive use, using this data as a guide.

Conditions of Temperature and Pressure For use with Gaseous Oxygen (BAM 8104-411)

Temperature, °C (°F)	Maximum O ₂ Pressure, MPa (psi)
Up to 60 (140)	11 (1636)
60 to 100 (140 to 212)	10 (1488)
100 to 175 (212 TO 347)	6 (892)

Mechanical Impact in Liquid Oxygen (MSFC 106B)

Temperature	Impact Energy, Joules (ft-lb)
Ambient	98 (72)

TYPICAL APPLICATIONS

Typical applications include, but not restricted to:

- Small bearing and valve lubrication
- Sealing applications
- Small part lubrication
- Chain and gear lubrication

DIRECTIONS FOR USE

1. For best results: Remove old lubricant and thoroughly clean parts.
2. Lubricate as required to manufacturers specifications. Lubrication intervals should be extended significantly.

PROPERTIES OF MATERIAL

	Typical Value
Base Oil	PFPE (PerFluoroPolyEther)
Thickener	PTFE (PolyTertraFluoroEthylene)
NLGI Grade	#2 Penetration (265 - 290)
Appearance	White, Buttery
Specific Gravity	1.95
Base Oil Viscosity	
cST @ 20°C (68°F)	810
Flash Point °C (°F)	None

PERFORMANCE OF MATERIAL

	Typical Values
Oil Separation, FTMS-711B321.1, % in 30 hours @ 99°C	3
Four Ball Wear Scar, ASTM D-2266 @ 1 hour, 1200 RPM, 107°C (225°F), 20 kg load, mm	.362
Coefficient of Friction, ASTM D-2266	.110

GENERAL INFORMATION

For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).

Ordering Information

Part Number	Container Size
29711	2 oz. tube

Storage

Products shall be ideally stored in a cool, dry location in unopened containers. For specific shelf-life information, contact your local Technical Service Center.

Warning

This product contains sodium nitrite which may slow or inhibit the cure of certain Loctite products. This product should not be used as a lubricant in the presence of strong oxidizers (chlorine, etc.) Contact the Loctite Technical Information Department for more information.

Note

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, **Loctite Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Loctite Corporation's products. Loctite Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.** The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Loctite Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

PRODUCT SPECIFICATIONS
THE TECHNICAL DATA CONTAINED HEREIN ARE INTENDED AS REFERENCE ONLY.
PLEASE CONTACT LOCTITE CORPORATION QUALITY DEPARTMENT FOR ASSISTANCE AND RECOMMENDATIONS ON SPECIFICATIONS FOR THIS PRODUCT.
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