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# Product Description Sheet

## Loctite®/DuPont® Krytox® RFE PFPE O-Ring Lubricant

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### PRODUCT DESCRIPTION

LOCTITE®/DuPont® Krytox® RFE PFPE O-Ring Lubricant is a high performance, synthetic grease which increases seal and gasket material efficiency and service life. This lubricant will not cause cracking or swelling, and is compatible with most plastics, synthetic rubber materials, and metals. The product has excellent lubrication over a broad temperature range, -15°F to 500°F (-26°C to 260°C).

### PRODUCT BENEFITS

- High temperature resistance, thermally stable
- Chemically resistant
- Can be used with chlorinated systems
- Oxygen compatible\*
- Nonflammable
- Insoluble in all but fluorinated solvents
- Water resistant
- Non-toxic
- Outlasts \ outperforms petroleum based lubricants
- Compatible with most plastics

\* 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 <sub>2</sub> 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

O-Ring lubrication and sealing under normal conditions and severe chemical conditions (including sulfuric acid and chlorine) as well as high temperatures. Product can also be used as a seal material on all valves. Rated for use as a lubricant in oxygen rich environments.

### DIRECTIONS FOR USE

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

### PROPERTIES OF MATERIAL

	Typical Values
Base Oil	PFPE (PerFluoroPolyEther)
Thickener	PTFE (PolyTetraFluoroEthylene)
NLGI Grade	#2 Penetration (265 - 295)
Appearance	White, buttery
Specific Gravity	1.95
Base Oil Viscosity	
cST @ 20°C (68°F)	810
Flash Point °C (°F)	None
Oil Separation, FTMS-711B321.1, % in 30 hours @ 99°C	3

### GENERAL INFORMATION

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

### Ordering Information

Part Number	Container Size
29710	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.

### 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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