

# LOCTITE<sup>®</sup> Krytox<sup>®</sup> RFE **Advanced PTFE Dry** Lubricant

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## PRODUCT DESCRIPTION

LOCTITE<sup>®</sup> Krytox<sup>®</sup> RFE Advanced PTFE Dry Lubricant provides the following product characteristics:

| Technology       | Polytetrafluoroethylene                                      |  |
|------------------|--|--|
| Chemical Type    | Polytetrafluoroethylene (PTFE)                               |  |
| Appearance       | Fluid, white to gray dispersion <sup>LMS</sup>               |  |
| Cure             | Non-curing   |  |
| Application      | Lubrication  |  |
| Specific Benefit | Non-oily   |  |
|                  | <ul> <li>Non-staining</li> </ul>                             |  |
|                  | Waterproof   |  |
|                  | Chemical resistant   |  |
|                  | Thermally stable   |  |
|                  | <ul> <li>Excellent adhesion</li> </ul>                       |  |
|                  | <ul> <li>Will not attract dirt or dust</li> </ul>            |  |
|                  | <ul> <li>Excellent anti-stick properties</li> </ul>          |  |
|                  | <ul> <li>Contains no silicones, soap or<br/>waxes</li> </ul> |  |

LOCTITE<sup>®</sup> Krytox<sup>®</sup> RFE Advanced PTFE Dry Lubricant is a high performance synthetic aerosol lubricant designed to provide long-lasting lubrication for parts that require a dry, thin lubricating film. Ideal for use in applications where parts are inaccessible for lubrication after assembly, are stored for long periods of time, are seldom lubricated, are subject to frequent disassembly, and where long-term lubrication is desired. Typical applications include sliding surfaces, mold releases, ways and slides, pulleys, packing, bearings, hinges, metal surfaces, rolls, conveyors, linkages, belts, gaskets, gears, sleeves, chain drives, cables, and metal workings. This product is typically used in applications with an operating range of -26 °C to +260 °C.

## **TYPICAL PROPERTIES**

| Flash Point - See MSDS<br>pH<br>Solids/Non-Volatile Content, %<br>Drying Time @ 25 °C, seconds | 4.0 to 8.0 <sup>LMS</sup><br>15.6 to 19.6 <sup>LMS</sup><br>60 |
|--|--|
| TYPICAL PERFORMANCE  |  |
| Physical Properties:   |  |
| Coefficient of friction, ASTM D 1400:  |  |
| Light Coating (.0014 to .0016 cm)  | 0.103  |
| Heavy Coating (.0019 to .0021 cm)  | 0.072  |
| Miscellaneous:   |  |
| Pin & Vee Block, ASTM D 2625:  |  |
| Method A, Endurance life, minutes  | 17   |
| Method B, Load carrying capacity, kgf  | 694  |

### GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

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

## **Directions for use**

- 1. Provide adequate ventilation.
- 2. Shake can thoroughly before use.
- 3. Best results are obtained when the product is at room temperature.
- 4. Spray an even coat of LOCTITE<sup>®</sup> Krytox<sup>®</sup> RFE Advanced PTFE Dry Lubricant from a distance of about 20 to 25 cm.

#### Loctite Material Specification<sup>LMS</sup>

LMS dated September 29, 1998. Test reports for each batch are available for the indicated properties. LMS test reports include selected QC test parameters considered appropriate to specifications for customer use. Additionally, comprehensive controls are in place to assure product quality and consistency. Special customer specification requirements may be coordinated through Henkel Quality.

#### Storage

The product is classified as flammable and must be stored in an appropriate manner in compliance with relevant regulations. Do not store near oxidizing agents or combustible materials. Store product in the unopened container in a dry location. Storage information may also be indicated on the product container labelling.

Optimal Storage: 8 °C to 21 °C. Storage below 8 °C or greater than 28 °C can adversely affect product properties. Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representive.



## Conversions

 $(^{\circ}C \times 1.8) + 32 = ^{\circ}F$ kV/mm x 25.4 = V/mil mm / 25.4 = inches  $\mu$ m / 25.4 = mil N x 0.225 = lb N/mm x 5.71 = lb/in N/mm<sup>2</sup> x 145 = psi MPa x 145 = psi N·m x 8.851 = lb·in N·m x 0.738 = lb·ft N·mm x 0.142 = oz·in mPa·s = cP

## Note

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Reference 0.0