

LOCTITE® LB 8211

Known as LOCTITE® Krytox® RFE Advanced PTFE Dry Lubricant
January 2015

PRODUCT DESCRIPTION

LOCTITE® LB 8211 provides the following product characteristics:

Technology	Polytetrafluoroethylene
Chemical Type	Polytetrafluoroethylene (PTFE)
Appearance	Fluid, white to gray dispersion ^{LMS}
Cure	Non-curing
Application	Lubrication
Specific Benefit	<ul style="list-style-type: none">• Non-oily• Non-staining• Waterproof• Chemical resistant• Thermally stable• Excellent adhesion• Will not attract dirt or dust• Excellent anti-stick properties• Contains no silicones, soap or waxes

LOCTITE® LB 8211 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 SDS

pH	4.0 to 8.0 ^{LMS}
Solids/Non-Volatile Content, %	15.6 to 19.6 ^{LMS}
Drying Time @ 25 °C, seconds	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 Safety Data Sheet (SDS).

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® LB 8211 from a distance of about 20 to 25 cm.

Loctite Material Specification^{LMS}

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 Representative.

Conversions

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

Note:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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Reference 0.1