

# LOCTITE<sup>®</sup> LB 8034<sup>™</sup>

Known as LOCTITE<sup>®</sup> ViperLube<sup>™</sup> High Performance Synthetic Grease  
April 2015

## PRODUCT DESCRIPTION

LOCTITE<sup>®</sup> LB 8034<sup>™</sup> provides the following product characteristics:

<b>Technology</b>	Oil & Grease
<b>Chemical Type</b>	Polyalphaolefin
<b>Appearance</b>	Smooth cream <sup>LMS</sup>
<b>Components</b>	One component - requires no mixing
<b>Cure</b>	Non-curing
<b>Application</b>	Lubrication

LOCTITE<sup>®</sup> LB 8034<sup>™</sup> is an advanced multi-purpose NLGI Grade 2 grease that is composed of synthetic PAO (polyalphaolefin) base stocks and a calcium sulfonate additive. The grease is designed for use as a long-life lubricant to provide superior protection in industrial applications. It is an excellent lubricant for industrial processes where a wide range of operating temperatures and environments are encountered. Due to its base oil chemistry this product is ideal for use on food processing equipment as a lubricant for machine parts and equipment, as a release agent on gaskets or seals, and is an acceptable choice for use as a protective anti-rust film

## TYPICAL PROPERTIES

Specific Gravity @ 25 °C	0.95 to 1.05
Flash Point - See SDS	
Consistency, ISO 6743-99, NLGI Class	2
Penetration, ISO 2137, 1/10 mm	≥290 <sup>LMS</sup>
Drop Point, ISO 2176, °C	≥318 <sup>LMS</sup>
Bearing Corrosion, ASTM D1743, rating	Pass
Low-Temperature Torque, -40 °C, ASTM D1478, N·m:	
Start	0.37
1 Hour Running	0.05
Evaporation Loss, ASTM D972, 22 hours @ 100 0.11 °C, %	
Oil Separation, ASTM D6184, % wt. loss:	
Cone Bleed @ 100 °C	0.2
Salt Fog Corrosion, ASTM B 117, hours	>350
Copper Corrosion, ISO 2160	1B
Water Resistance @ 80°C, ASTM D1264, %	0.57
Wear Protection, Scar Diameter, ASTM D2266, 0.42 mm	
EP Performance, ASTM D2596, kgf:	
Load Wear Index	53.2
Weld Point	400
Oil Separation in Storage, ASTM D1742, % wt. 0.0 loss	
Bomb Oxidation, ASTM D942, N/mm <sup>2</sup> drop:	
1,000 hours	-0.027
Wheel Bearing Leakage, ASTM D4290, g	4.51

## Compatibility with Polyalphaolefins

Since plastics and elastomers can be formulated and manufactured to have a wide range of physical properties, it is recommended that compatibility for the particular grade or product formulation be established for the specific application.

## Compatibility of Various Materials with Polyalphaolefin Lubricants:

Acceptable	Application Dependant	Not Recommended
Fluorocarbon N	Low Nitrile Buna N	High Nitrile Buna N
Fluorosilicone	Butyl	
Epichlorohydrin		
Polyurethane	Ethylene/Propylene	
Neoprene		
Silicone	Polysulfide	Buna S
Chlorinated Polyethylene	Chlorosulfonated Polyethylene	Polyisoprene
Propylene Oxide		
Polyacrylate		
Ethylene/Acrylic		

## TYPICAL PROPERTIES OF CURED MATERIAL

### Electrical Properties:

Dielectric Constant, IEC 60250:	
1 kHz	3.006
Volume Resistivity, IEC 60093, Ω·cm	1.81×10 <sup>10</sup>
Dielectric Breakdown Strength, IEC 60243-1, kV/mm	14.1

After 70 hours  
@ 150°C

### Physical Properties:

Shore Hardness, ISO 868Durometer A, change -1 (pts)	
Volume Swell, %	2.96

## 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. Apply to clean parts which need lubricating, avoid excessive lubrication

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

LMS dated June 03, 2002. 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**

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

**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 Corporation 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 Henkel representative.

**Conversions**

$$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$$

$$\text{kV/mm} \times 25.4 = \text{V/mil}$$

$$\text{mm} / 25.4 = \text{inches}$$

$$\mu\text{m} / 25.4 = \text{mil}$$

$$\text{N} \times 0.225 = \text{lb}$$

$$\text{N/mm} \times 5.71 = \text{lb/in}$$

$$\text{N/mm}^2 \times 145 = \text{psi}$$

$$\text{MPa} \times 145 = \text{psi}$$

$$\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$$

$$\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$$

$$\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$$

$$\text{mPa}\cdot\text{s} = \text{cP}$$

**Disclaimer**

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. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

**In case products are delivered by Henkel Belgium NV, Henkel Electronic Materials NV, Henkel Nederland BV, Henkel Technologies France SAS and Henkel France SA please additionally note the following:**

In case Henkel would be nevertheless held liable, on whatever legal ground, Henkel's liability will in no event exceed the amount of the concerned delivery.

**In case products are delivered by Henkel Colombiana, S.A.S. the following disclaimer is applicable:**

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. 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.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is

excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

**In case products are delivered by Henkel Corporation, or Henkel Canada Corporation, the following disclaimer is applicable:**

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, **Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel 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 Henkel 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.

**Trademark usage**

Except as otherwise noted, all trademarks in this document are trademarks of Henkel Corporation in the U.S. and elsewhere. ® denotes a trademark registered in the U.S. Patent and Trademark Office.

Reference **N/A**

