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LOCTITE

Technical Data Sheet

LOCTITE® LB 8034™

Known as LOCTITE® ViperLube™ High Performance Synthetic Grease
April 2015

PRODUCT DESCRIPTION

LOCTITE® LB 8034™ provides the following product characteristics:

Technology	Oil & Grease
Chemical Type	Polyalphaolefin
Appearance	Smooth cream[LMS]
Components	One component - requires no mixing
Cure	Non-curing
Application	Lubrication

LOCTITE® LB 8034™ 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[LMS]
Drop Point, ISO 2176, °C	≥318[LMS]
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 °C, %	0.11
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, mm	0.42
EP Performance, ASTM D2596, kgf:	
Load Wear Index	53.2
Weld Point	400
Oil Separation in Storage, ASTM D1742, % wt. loss	0.0
Bomb Oxidation, ASTM D942, N/mm² 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	Low Nitrile Buna N	High Nitrile Buna N
Fluorosilicone		
Epichlorohydrin	Butyl	
Polyurethane		
Neoprene	Ethylene/Propylene	
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^{10}
Dielectric Breakdown Strength, IEC 60243-1, kV/mm	14.1

After 70 hours @ 150°C

Physical Properties:

Shore Hardness, ISO 868Durometer A, change (pts)	-1
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).

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Directions For Use:

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

Loctite Material Specification[LMS]

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

(°C x 1.8) + 32 = °F
kV/mm x 25.4 = V/mil
mm / 25.4 = inches
µm / 25.4 = mil
N x 0.225 = lb
N/mm x 5.71 = lb/in
N/mm² 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

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Reference N/A

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