

LOCTITE® LB 8103™

June 2014

Product description

LOCTITE® LB 8103™ provides the following product characteristics:

Technology	Oil & grease
Chemical type	Mineral oil, lithium soap and MoS2
Appearance	Black
Odor	Oily
Cure	Anaerobic
Application	Threadlocking

LOCTITE® LB 8103™ is a universal mineral grease containing MoS2 for heavy duty use on moving parts at all speeds. It is used in high stressed joints, plain and roller bearings, splines and socket joints, and slideways subjected to vibration and heavy loads. This product is typically used in applications with an operating range of -30°C to 160°C.

Typical properties

Density @ 25°C, g/ml	0.9
Consistency, ISO 6743-99, NLGI class	2
Penetration, worked, ISO 2137, 1/10mm: @ 25°C and 60 strokes	265 to 295
Drop point, ISO 2176, °C	>250
Loading test - 4 ball, ASTM D2596:	
Weld load, N	>3,600
Weld scar (@ 3,600N), mm	<4.0
Wear, 1 hour / 400 N, mm	0.6
EMCOR test, DIN 51802	0/0
Copper corrosion, ISO 2160:	
3 hours @ 100 °C	1a
Peak temperature, °C	200
Flash point - see SDS	

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.

Directions for use

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

Storage

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

Product specification

The technical data contained herein are intended as reference only and are not considered specifications for the product. Product specifications are located on the Certificate of Analysis or please contact Henkel representative.

Approval and certificate

Please contact Henkel representative for related approval or certificate of this product.

Data ranges

The data contained herein may be reported as a typical value. Values are based on actual test data and are verified on a periodic basis.

Temperature/Humidity Ranges: 23°C / 50% RH = 23±2°C / 50±5% RH

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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