



LOCTITE® 8102™

April 2009

PRODUCT DESCRIPTION

LOCTITE® 8102™ provides the following product characteristics:

Technology	Oil & Grease
Chemical Type	Mineral Oil, Lithium Soap and EP-additives
Appearance	Light brown
Odor	Oily
Cure	Not applicable
Application	Lubrication

LOCTITE® 8102™ is a high performance grease which prevents wear and corrosion. This product is used to lubricate rolling and plain bearings under loads and demanding environmental conditions. This product is typically used in applications with an operating range of -30 °C to +160 °C.

TYPICAL PROPERTIES

Density, ISO 12185 @ 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	3,300
Weld Scar (@ 3,300 N), mm	<4.0
Wear, 1 hour / 400 N, mm	0.5
EMCOR Test, DIN 51802	0/0
Copper Corrosion, ISO 2160: 3 hours @ 100 °C	1a
Peak Temperature, °C	200
Flash Point - See MSDS	

GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a lubricant 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. Apply to clean parts which need lubricating, avoid excessive lubrication.

Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.

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 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

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Reference 1.3