



# LOCTITE<sup>®</sup> 8101™

June 2005

## PRODUCT DESCRIPTION

LOCTITE<sup>®</sup> 8101™ provides the following product characteristics:

<b>Technology</b>	Oil & Grease
<b>Chemical Type</b>	Doped mineral oil, lithium soap and EP additives
<b>Appearance</b>	Amber liquid <sup>LMS</sup>
<b>Propellant</b>	Carbon dioxide
<b>Cure</b>	Not applicable
<b>Application</b>	Lubrication

LOCTITE<sup>®</sup> 8101™ is an adhesive grease used for open mechanical systems. It is used to lubricate chains, open gears, worm screws and cables, and protects against water ingress. It also provides excellent resistance against wear and withstands high pressure. This product is designed to resist centrifugal forces on high speed mechanisms. This product is typically used in applications with an operating range of -25 °C to +170 °C.

## TYPICAL PROPERTIES

Density, DIN EN542 @ 25 °C, g/cm <sup>3</sup>	0.786 to 0.806 <sup>LMS</sup>
Viscosity @ 40°C, cSt	2.33 to 2.53 <sup>LMS</sup>
Flash Point - See MSDS	
Penetration, ISO 2137, 1/10mm	265 to 295 <sup>LMS</sup>
Drop Point, ISO 2176, °C	≥190 <sup>LMS</sup>
EMCOR Test, DIN 51802	0 to 1
Consistency, DIN 51818, NLGI Class	2
Copper Corrosion, 3 hours @ 100 °C, ISO 2160	1a
Bomb Oxidation, ASTM D942, N/mm <sup>2</sup> drop:	
100 hours	<0.055
Loading Test - 4 ball, DIN 51350-5:	
Weld Load, N	3,150
Wear, 1 hour / 400 N, mm	0.6

## GENERAL INFORMATION

**For safe handling information on this product, consult the Material Safety Data Sheet (MSDS).**

### Directions for use

- Shake can thoroughly before use. Spray on to clean parts, where possible.
- LOCTITE<sup>®</sup> cleaners 7063™ or 7070™ may be used to remove old oil residues, but when they cannot be used, it is important to check the compatibility of old oils with the new lubricant.

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

LMS dated July 16, 2004. 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 Technical Service Center or Customer Service 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/mm <sup>2</sup> 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

## Note

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Reference 1.0