



# LOCTITE® 8102™

June 2005

## PRODUCT DESCRIPTION

LOCTITE® 8102™ provides the following product characteristics:

<b>Technology</b>	Oil & Grease
<b>Chemical Type</b>	Mineral and synthetic oil, lithium complex soap and EP additives
<b>Appearance</b>	Beige grease <sup>LMS</sup>
<b>Cure</b>	Not applicable
<b>Application</b>	Lubrication

LOCTITE® 8102™ is a high temperature, multi-purpose heavy duty grease, with adhesive properties, that prevents wear and corrosion. This product is used to lubricate rolling and plain bearings under heavy loads and demanding environmental conditions such as furnaces and steam sterilizing equipment. This product is typically used in applications with an operating range of -30 °C to +200 °C.

## TYPICAL PROPERTIES

Density, ISO 12185 @ 25 °C, g/cm³	0.82 to 0.92 <sup>LMS</sup>
Flash Point - See MSDS	
Penetration, ISO 2137, 1/10mm	265 to 295 <sup>LMS</sup>
Drop Point, ISO 2176, °C	≥200 <sup>LMS</sup>
EMCOR Test, DIN 51802	0 to 1
Consistency, DIN 51818, NLGI Class	2
DN Factor (Ndm), max.	500,000
Copper Corrosion, 3 hours @ 100 °C, ISO 2160	1a
Bomb Oxidation, ASTM D942, N/mm² drop:	
100 hours	0.048
Loading Test - 4 ball, DIN 51350-5:	
Weld Load, N	3,150
Wear, 1 hour / 400 N, mm	0.49

## GENERAL INFORMATION

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

### Directions for use

1. Apply to clean parts where possible, as conventional grease, by means of brush, spatula or grease gun. LOCTITE® 8102™ may be used in automatic lubrication systems.
2. LOCTITE® cleaners 7063™ or 7070™ may be used to remove grease residues from nipples and lubricated parts.
3. Follow manufacturer's recommendation for lubrication of bearings (e.g. quantity, frequency, etc.).
4. Avoid excessive greasing. Other grease residues may not be compatible with LOCTITE® 8102™.

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

LMS dated April 21, 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

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$   
 $\text{kV/mm} \times 25.4 = \text{V/mil}$   
 $\text{mm} / 25.4 = \text{inches}$   
 $\mu\text{m} / 25.4 = \text{mil}$   
 $\text{N} \times 0.225 = \text{lb}$   
 $\text{N/mm} \times 5.71 = \text{lb/in}$   
 $\text{N/mm}^2 \times 145 = \text{psi}$   
 $\text{MPa} \times 145 = \text{psi}$   
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$   
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$   
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$   
 $\text{mPa}\cdot\text{s} = \text{cP}$

### Note

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Reference 1.0