



LOCTITE® 8150™

July 2005

PRODUCT DESCRIPTION

LOCTITE® 8150™ provides the following product characteristics:

Technology	Anti-Seize
Chemical Type	Mineral oil, aluminum graphite and copper
Appearance	Grey paste ^{LMS}
Cure	Non-curing
Application	Lubrication

LOCTITE® 8150™ is an anti-seize paste for threaded connections exposed to high temperatures to prevent seizing and corrosion. This product prevents seizing or jamming in joints exposed to high temperatures (e.g. exhausts of combustion engines and fittings or oil and gas burners). It may also be used as a lubricant for oscillating mechanisms. This product is typically used in applications with an operating range of -30 °C to +900 °C.

TYPICAL PROPERTIES

Density, ISO 2811-1 @ 25 °C, g/cm ³	0.82 to 1.02 ^{LMS}
Flash Point - See MSDS	
Unworked Penetration, ISO 2137, 1/10 mm	355 to 385 ^{LMS}
Drop Point, ISO 2176, °C	>170 ^{LMS}
Consistency, DIN 51818, NLGI Class	0
Copper Corrosion, 3 hours @ 100 °C, ISO 2160	1a
Bomb Oxidation, ASTM D942, N/mm ² drop: 100 hours	<0.035
Loading Test - 4 ball, DIN 51350-5: Weld Load, N	4,900
Wear, 1 hour / 400 N, mm	0.93

TYPICAL PERFORMANCE

After 24 hours @ 450 °C, Pre-torqued to 80 N·m

Breakaway Torque, MIL PRF 907: M10 steel nuts and bolts	N·m	85
	(lb.in.)	(750)

After 24 hours @ 750 °C, Pre-torqued to 80 N·m

Breakaway Torque, MIL PRF 907: M10 steel nuts and bolts	N·m	100
	(lb.in.)	(885)

GENERAL INFORMATION

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

Directions for use

1. For best performance bond surfaces should be clean and free from scale, oxides and lubricant residues.
2. LOCTITE® cleaners 7063™ or 7070™ may be used to remove oxides and lubricant residues.
3. Apply a thin layer by brushing evenly over the whole surface for moving parts lubrication.

Loctite Material Specification^{LMS}

LMS dated April 23, 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/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

Note

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Reference 1.0