LOCTITE® Silver Grade Anti-Seize Lubricant Stick

September 2006

PRODUCT DESCRIPTION

LOCTITE® Silver Grade Anti-Seize Lubricant Stick provides the following product characteristics:

Technology	Anti-Seize
Chemical Type	Naphthenic oil
Appearance	Silver color[LMS]
Appearance (form)	Stick
Cure	Non-curing
Application	Lubrication

LOCTITE® Silver Grade Anti-Seize Lubricant Stick is a heavy-duty, high temperature, anti-seize thread lubricant. Its smooth texture makes it suitable for protecting fine threads, snug slip fits or other closely mated parts. This product is used to lubricate and to permit easy disassembly of assemblies exposed to high temperatures, such as boiler and oven parts, jet engines, and industrial turbines. This product is typically used in applications up to 870 °C.

MIL-PRF-907

LOCTITE® Silver Grade Anti-Seize Lubricant Stick meets the performance requirements of Military Specification MIL-PRF-907.

TYPICAL PROPERTIES

Specific Gravity @ 25 °C	1.1
Flash Point - See MSDS	
Penetration, ISO 2137, 1/10mm	20 to 80[LMS]
Copper Corrosion, ISO 2160	Slight tarnish, 1a
Dimensional Stability @ 77°C	Pass
Salt Fog, MIL-PRF-907, third cycle	Pass

TYPICAL PERFORMANCE

An anti-seize lubricant used on a bolt helps to develop greater clamp load for the same torque compared to an unlubricated bolt. An additional benefit is greater uniformity in clamp load among a series of bolts. The relationship between torque and clamp load is expressed in the following equation:

T = K x F x D

T = Torque (N·m, lb.in, lb.ft)
K = Torque coefficient or nut factor, determine experimentally
F = Clamp load (N, lb.)
D = Nominal diameter of bolt (mm, in.)

Torque coefficient, k:	
3/8 x 16 steel nuts and bolts	0.18

(In critical applications, it is necessary to determine the K values independently. Henkel corporation makes no warranty of specific performance on any individual fastener)

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. For best performance part surfaces should be clean and free of grease.
2. Apply a light coating to parts requiring lubrication, assemble.
3. Wipe away any excess compound.
4. **CAUTION:** LOCTITE® Silver Grade Anti-Seize Lubricant Stick is not a high-speed load carrying lubricant and should not be used on ball or roller bearings, or on parts where lubrication is critical.

Loctite Material Specification[LMS]

LMS dated November 11, 2002. 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

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, **Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.** The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Henkel Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

Trademark usage

Except as otherwise noted, all trademarks in this document are trademarks of Henkel Corporation in the U.S. and elsewhere. ® denotes a trademark registered in the U.S. Patent and Trademark Office.

Reference 1.1