



# LOCTITE<sup>®</sup> Preapplied Anti-Seize

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## PRODUCT DESCRIPTION

LOCTITE<sup>®</sup> Preapplied Anti-Seize provides the following product characteristics:

<b>Technology</b>	Nickel Based
<b>Chemical Type</b>	Polymeric emulsion
<b>Appearance</b>	Gray paste
<b>Cure</b>	Non-curing
<b>Application</b>	Anti-seize

LOCTITE<sup>®</sup> Preapplied Anti-Seize is a preapplied, high temperature, anti-galling thread lubricant that is dry-to-the-touch. It is pre-coated for production applications such as: exhaust manifold bolts, catalytic converter bolts and oven screws.

## TYPICAL PROPERTIES

Specific Gravity @ 25 °C	1.3
Flash Point - See MSDS	
Viscosity, Brookfield - HBT, 25 °C, mPa·s (cP):	
Spindle TA, speed 10 rpm	40,000 to 90,000
On Part Life, years	4

## 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:

$$T = K \times F \times D$$

- 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	0.09

## TYPICAL PERFORMANCE

On - Torque, :	
3/8 x 16 steel nuts and bolts (grade 5):	
After drying minimum of 24 hours @ 22 °C	N-m ≤3.39 (lb.in.) (≤30)
After being in a forced air oven for 30 minutes @ 71 °C	N-m ≤3.39 (lb.in.) (≤30)

Breakaway Torque, :	
3/8 x 16 steel nuts and bolts (grade 5):	
After 8 weeks @ 38°C / 100% RH	N-m 5.08 (lb.in.) (45)
Salt fog for 8 weeks	N-m 9.6 (lb.in.) (85)

Breakloose Torque, :

3/8 x 16 steel nuts and bolts (grade 5):	
After exposure to 650 °C for 24 hours	N-m 22.6 (lb.in.) (200)
After 5th exposure	N-m 36.2 (lb.in.) (320)

## GENERAL INFORMATION

**This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials**

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

## Directions for use

LOCTITE<sup>®</sup> Preapplied Anti-Seize is applied to threaded parts by authorized process centers who have automatic fastener cleaning, feeding, coating, rust proofing and drying equipment. Quantities can be handled promptly with minimum turnaround time. Sample fittings should be sent to the nearest authorized process center where they will coat your parts and return them to you for evaluation. **SAMPLE TESTS ARE RECOMMENDED TO OBTAIN DESIRED RESULTS ON YOUR PARTS.** Contact the nearest Loctite Sales Representative for the authorized process center nearest to you.

## 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

- (°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**

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.

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