



1001 Trout Brook Crossing
 Rocky Hill, CT 06067-3910
 Telephone: (860) 571-5100
 FAX: (860) 571-5465

Product Description Sheet

Preapplied Anti-Seize 17015

Industrial Version, December 2000

PRODUCT DESCRIPTION

LOCTITE® Preapplied Anti-Seize 17015 is a preapplied high temperature, anti-galling thread lubricant that is dry-to-touch.

TYPICAL APPLICATIONS

Pre-coated for production applications such as:

- Exhaust Manifold Bolts
- Catalytic Converter Bolts
- Oven Screws

PROPERTIES OF MATERIAL

	Typical Value
Chemical Type	Polymeric Emulsion
Appearance	Grey paste
Specific Gravity	1.3
Viscosity, cP	35,000 to 100,000
Brookfield HBT, Spindle TA @ 10 rpm	
Flash Point (TCC), °F	>200

TYPICAL PERFORMANCE

Measured on 3/8"-16 Grade 5 steel nuts & bolts

	Typical Value
On-torque, in-lbs	30 max
Measured after drying minimum of 24 hours @ RT or in a forced air oven 1/2 hour @ 160°F	
Breakaway Torque, in-lbs	
100% RH @ 100°F for 8 weeks	45
Salt Fog for 8 weeks, ASTM 3117	85
Breakloose Torque (360 in-lbs on-torque)	
After exposure to 1,200°F for 24 hours	200
After 5 th exposure	320
On part life, years	4

Torque Tension

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

K Factor:

K factors are obtained on 3/8"-16 Grade 5 steel nut & bolts by a test procedure which measures torque tension properties. Lubricant was applied to the bolt threads and both faces of the washer. See properties chart for the torque coefficient or K value for the anti-seize compounds. We feel that this data fairly represents performance to be expected. However, Loctite makes no warranty of specific performance on any individual fastener. In critical applications, it is necessary to determine K values independently.

Properties

	Typical Value
Torque coefficient, k on steel nuts and bolts	0.09

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

Preapplied Anti-Seize 17015 is applied to threaded fasteners by authorized converters throughout the United States. Bolts with diameters from 1/16" to 3/4" and shank lengths of 3/8" to 6 inches can be coated by the converters, who have automatic fastener cleaning, coating, rust proofing and drying equipment.

Storage

Product shall be ideally stored in a cool, dry location in unopened containers at a temperature between 8°C to 28°C (46°F to 82°F) unless otherwise labeled. Optimal storage is at the lower half of this temperature range. To prevent contamination of unused product, do not return any material to its original container. For further specific shelf life information, contact your local Technical Service Center.

Data Ranges

The data contained herein may be reported as a typical value and/or range. Values are based on actual test data and are verified on a periodic basis.

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, **Loctite Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Loctite Corporation's products. Loctite 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 Loctite 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.