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Product Description Sheet

8012 Moly Paste

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PRODUCT DESCRIPTION

Loctite 8012 Moly Paste contains 65% molybdenum disulfide for maximum lubricity. It is a heavy, black paste with unsurpassed lubricating qualities. Moly Paste reduces friction on threaded fasteners - bolts, nuts, studs - the low and uniform friction coefficient of 0.06 (torque coefficient, k, of 0.11) creates reliable assembly conditions. Lubricant stays in place through heat, load and vibration to ensure trouble-free disassembly from -29 to 400°C (-20 to +750°F).

Special Features:

- Provides smoother than new metal surfaces.
- Machine tool marks and other irregularities are reduced to a mirror-smooth finish by the lubricating action of Moly Paste

TYPICAL APPLICATIONS

For the ultimate in low friction solid lubrication,

- Press fit - no binding, no chatter or stick-slip, low force.
- Threaded fasteners - higher clamping from torque, less torque for same clamping, ease of removal (anti-seize).
- Slip-fit - easy assembly, disassembly, ready alignment.
- Metalworking - drawing, stamping, coining, extruding, forging - lower friction, eliminates scratching, galling, metal pick-up, lengthens die life.
- Splines - reduces wear and binding.
- Gears - stands up under high static or slow-moving loads.

PROPERTIES OF MATERIAL

	Typical Value
Appearance	Black Paste
Specific Gravity	1.92

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)
- **K** = Torque coefficient or nut factor
- **F** = Clamp Load (N)
- **D** = Nominal diameter of bolt (m), determined experimentally.

K Factor:

K factors are obtained on Grade 8, 1/2" steel bolts and Grade 5 nuts 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 (steel nuts & bolts)	.11
Torque coefficient, k (solvent cleaned, not lubricated)	.27
Penetration, mm (ASTM D 217-88 un-worked)	325

DIRECTIONS FOR USE

- Clean mating surfaces before application.
- **Note--when grinding or wire brushing, use dust mask.** Dust from cleaning threads may contain metal powders, graphite, or silica quartz. Inhalation may cause lung injury or other harm.
- Coat mating surfaces, assemble.
- Do not thin products with solvents.
- To avoid contamination, keep container closed when not in use.

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).

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 labelled. 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 Centre.

NOT FOR PRODUCT SPECIFICATIONS.

THE TECHNICAL DATA CONTAINED HEREIN ARE INTENDED AS REFERENCE ONLY.

PLEASE CONTACT LOCTITE CORPORATION QUALITY DEPARTMENT FOR ASSISTANCE AND RECOMMENDATIONS ON SPECIFICATIONS FOR THIS PRODUCT.

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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

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