



# INNOVATION THAT MAKES SENSE

SAFETY | RELIABILITY | COST EFFICIENT | TIME SAVING

Jerry Ritter  
Metallurgist

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Stanton Walter  
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December 15, 2014

“MAKING 300 SERIES SS FASTENERS LAST A LIFETIME”

## Technical Bulletin

Molybdenum Disulfide Based Lubricant - Fusion Attached to Metal Surfaces

Proprietary Formulation and Application

Virtually Eliminates Seizing or Galling

### DESCRIPTION

NEVER GALL, is a premium high performance lubricant that is attached to the metal in a fusion bond that penetrates into all micro discontinuities in the metals surface. Its most intimate bond occurs within .0001 - .0002 in. thickness of the surface. NEVER GALL, adheres to the new metal surface, resulting in a dark gray appearance to the normally shiny surface of stainless steel with an overall thickness of .001 to .002 in.

NEVER GALL has been engineered to keep 300 series stainless steel surfaces from ever galling, when applied to both surfaces of mating metals such as stainless steel nuts and bolts. Never Gall has the potential to keep other metals from galling as well, i.e., titanium, aluminum, hastelloy and galvanized zinc. NEVER GALL's superior unmatched coating, in independent and factory testing, has not seized or galled in any testing thus far on stainless steel and also on tool steel and carbon steels used in fasteners. As the bolt and nut thread surfaces are engaged during installation, NEVER GALL coating continues to burnish into the metal as it is used under loading and unloading conditions.

### PRE-INSTALLATION NOTES

It is **important** to understand that NEVER GALL is a permanent lubricant that reduces friction on the surface of material. This lubricity reduces the frictional drag occurring between mating metal surfaces and can increase the clamping forces generated under similar torque load conditions. In independent tests ran against a commonly used anti seize product in the race car industry, NEVER GALL increased the clamping force by 15% over its competitors brand, under the same torque loads. One should follow all engineering and manufactures recommendations of torque applied to any materials that NEVER GALL is applied to. Over torquing fasteners is not recommended ever, unless directed to by the engineer and/or manufacturer of the products being used. Under and/or over torquing may lead to fastener failure or joint and gasket failure, resulting in safety hazards.

NEVER GALL

Corporate Office: SCW ASSOCIATES LLC DBA / NEVER GALL  
P.O. Box 502707 Indianapolis, IN. 46250 | Phone: 574.532.2581 |

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NEVER GALL has been tested, applying multiple rotations of loading and unloading up to 340 ft. lbs. of torque loads, under conditions of chiseled dents across multiple bolt threads and with thick wet sand covering all the threads; without galling failure. NEVER GALL will give you un-matched performance when it comes to thread dents, dings and sand in the threads.

### BENEFITS

- Will not gall or seize.
- Guaranteed (see Limited Warranty).
- Lowers future replacement costs.
- Thread dings and dents are not a problem
- With NEVER GALL dirt and debris on threads creates no deterrent.
- Eliminates greasy mess in application of other types of anti-seize.
- Can be Impact wrench assembled saving valuable assembly time.
- Reduce costly delays in projects by eliminating the need to remove galled fasteners.
- Improves safety by eliminating the use of torches and grinders to remove galled fasteners

### SURFACE PREPARATION

NEVER GALL does not require any additional surface preparation that is normally required of stainless steel bolts and nuts in the prevention of galling. It is intended to be used on both male and female surfaces of the thread and will have coating already applied at the factory. It is dry to the touch and will perform better than any known lubricant on the market today. Although clean threads are always the best form of practice, should dings, dents and sand get into the thread surface, it will not be a deterrent to seizing or galling. Using an uncoated fastener with NEVER GALL will void the warranty.

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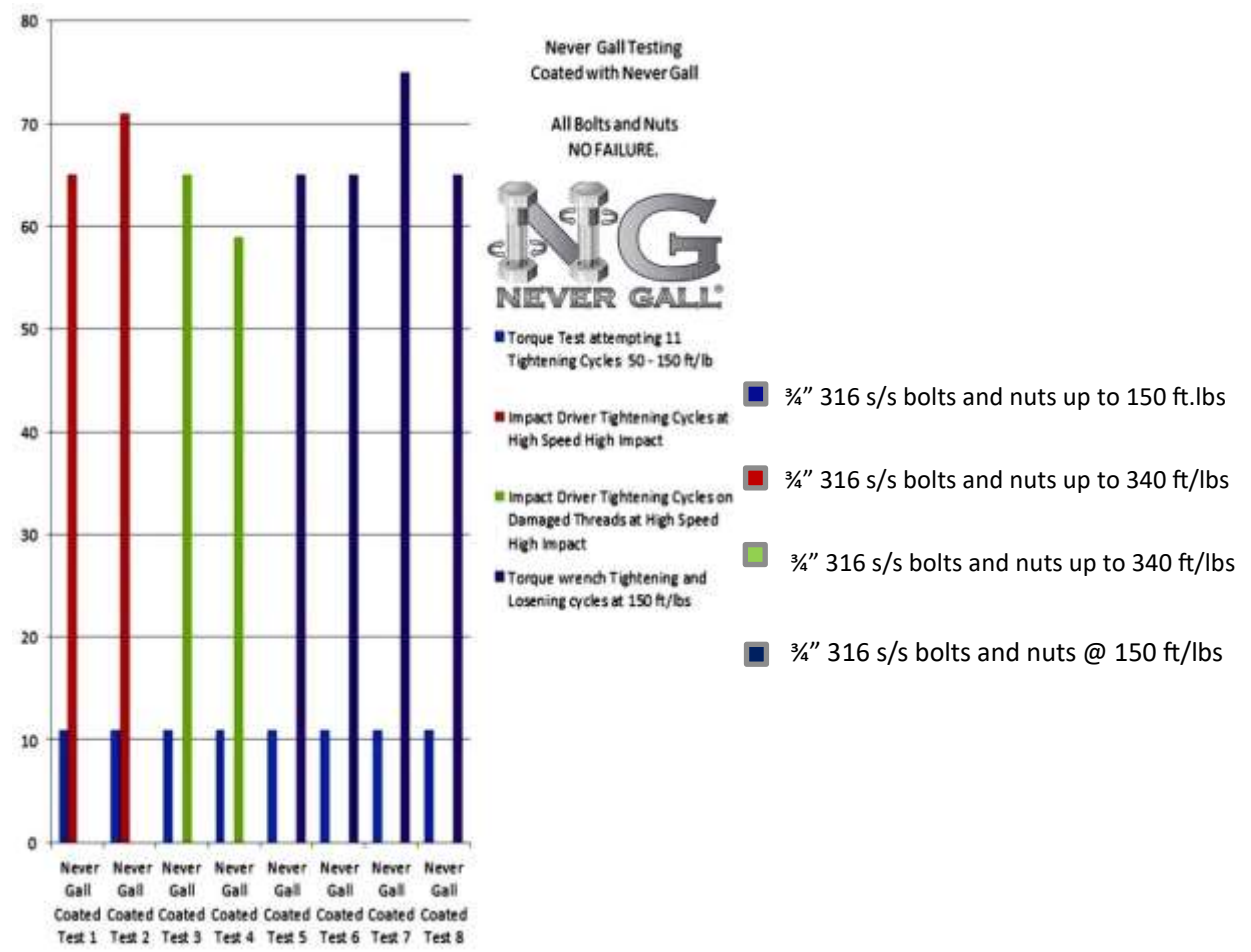
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### PERFORMANCE TEST DATA/COMPLIANCE

- Withstands temperature ranges from -320 deg. F to +600 deg. F and 2100 deg. F in the absence of oxygen.
- On Stainless steel coated parts Never Gall is resistant to acidic, mildly alkaline 8- 10 PH, and salt conditions.



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### HEALTH AND SAFETY

- Although there are no known health effects of NEVER GALL, it is currently **not** approved for contact with potable drinking water.
- Molybdenum Disulfide is a known irritant when breathing vapors during welding. Always use proper air ventilation and breathing air requirements when welding.

### PHYSICAL PROPERTIES

Color wet: Dark gray

Color dry: Dark Gray

Dry to touch

### CONTACT US @

Additional product information, technical assistance and customer service available by contacting:

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