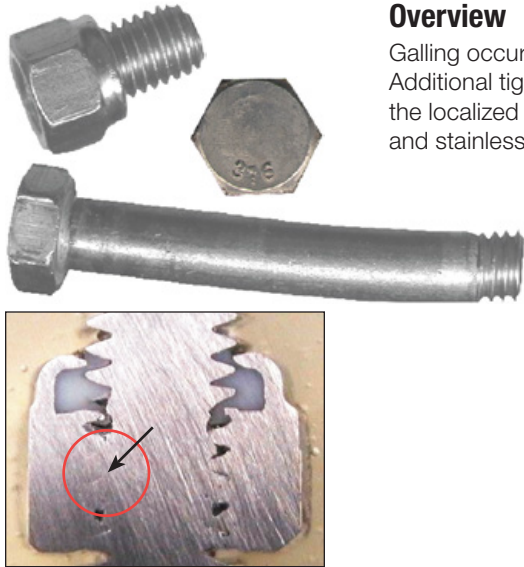


Product Information Report

Stainless Steel Galling



Overview

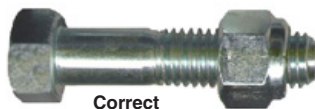
Galling occurs when excessive friction between mating parts results in localized welding. Additional tightening causes the nut to freeze and the cap screw to break at the point just above the localized weld. This situation can occur during normal installation of stainless steel hex nuts and stainless steel nylon insert lock nuts.

Prevention



Pneumatic Impact Wrench

Always use a slow, consistent turning motion. Both pneumatic and hand tools can generate enough friction and heat for galling to occur. Avoid using pneumatic tools because increased installation RPMs will increase the risk of galling.



Correct



Incorrect

The farther the nut travels on the threads, the greater the friction. In a correct installation, there should only be 2 or 3 threads protruding from the end of the nut.



Using a lubricant minimizes the friction between the threads and reduces the risk of seizing and galling. Torque values must be considered at all times, especially when using an anti-seize product.

