

Pioneered by Unisteel, UNITRONIC® is a high-strength material that provides an effective solution to thread galling.



### What Is Galling?

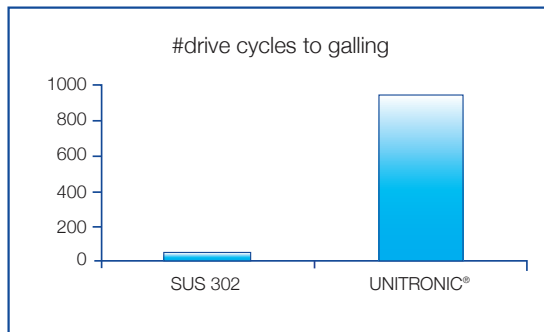
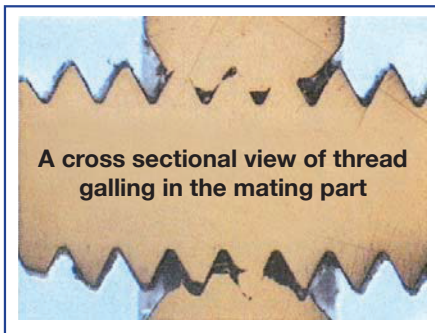
Fasteners made of stainless steel, aluminium, titanium or other alloys that self-generate an oxide film for corrosion protection, are susceptible to thread galling. When a fastener is being tightened, pressure builds up between the contact surfaces, which breaks down the protective oxides and creates protrusions above the original surface. The constant shearing and locking actions between the protrusions increases adhesion; which leads to galling.

### Features & Benefits

- Made of high-strength, gall-resistant UNITRONIC® material with a tensile strength of 750 – 830 N/mm<sup>2</sup>
- Corrosion resistance equal to SUS 302 stainless steel
- Available in a wide range of fastener sizes
- Available in UNI-LUBE® friction reduction coating
- Available in electro-polishing finish to meet Class 100 Clean Room standards
- 40% harder than SUS 302 stainless steel
- Improved mechanical performance with 30% higher torsional strength and seating torque
- Superior resistance to galling
- Lowers liquid particle count (LPC) contamination for critical applications

### Applications

- Hard disk drive assembly
- May be used in applications where functional requirements exceed SUS 302 in terms of mechanical strength, high speed assembly, contamination and multiple service cycles.



UNITRONIC® is a registered trademark of Unisteel.



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