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PTFE COATED STUDS, BOLTS AND NUTS

PTFE coated fastener's provides great corrosion resistance, very low coefficient of friction, consistent tensioning and ease of installation and removal. Extensive testing and field use have proven that the future of coated fastener's lies with Fluoropolymer coatings. Previously hot dip, galvanized, cadium or zinc plated fastener's were considered the standard. But these coatings could not stand up to the corrosive atmospheres prevalent in many industries. The most widely used application is on B7 studs with 2H nuts.

Dramatic improvements in efficiency, life expectancy and corrosion resistance are claimed to be imparted to Nut and Bolt connectors by the application of a low friction PTFE coating. PTFE coated connectors have out-performed all others in aggressive any noticeable effect.

Use Temperatures	Working temp. range up to + 260°C
Corrosioin Resistance	Salt Spray (ASTM B117) up to 3,000 hrs (Nuts not frozen)
Pencil Hardness	5H – 6H (ASTM D3363-92A)
Kinetic Friction Coefficient	0.06 - 0.08
Thickness	Nominal 0.001" (1 mil)
Impact	160 in lb (ASTM D2794-93)
Adhesion	5B (ASTM D3359-95)
Elongation	35%-50%
Tensile Strength	4,000 psi
Operating Pressure	Up to 100,000 psi

Technical Specifications

PTFE coating on fastener's will have a uniform thickness of 20 ± 5 microns to 45± 5 microns thick.

Why to Coat Bolts with PTFE Coatings?

- 1. Cleaning and painting of bare steel bolts in the field is likely to be difficult, expensive, and in some cases, not feasible.
- 2. The plain bolts, after stuffing in the holes, are expected to sit out in the weather for an extended period of time and get dried out and rusty, making correct tightening difficult or impossible.
- 3. Release or retightening of the bolt within the foreseeable future is necessary.
- 4. Due to its unique benefits, Fluoropolymer Coating has been applied to various types and grades of fasteners. The water works industry takes advantage of the superior corrosion resistance properties by coating Hex-head bolts for underground service. Stainless steel fasteners, used in many different industries, are coated for lubricity and anti-galling.
- 5. Fluoropolymer coatings are extremely durable and not easily removed. However, during assembly of fasteners in the field, the coating can sometimes be damaged. With most other fluoropolymer coatings, this results in exposed bare metal that quickly begins to show corrosion and causes the coating to fail. Our metallic base coat ensures superior corrosion resistance and continues to provide protection even under the harshest conditions.

