



# 550<sup>®</sup> EXTREME<sup>®</sup>

## NONMETALLIC ANTI-SEIZE COMPOUND

### DESCRIPTION

**550 Extreme** Anti-Seize Compound is an enhanced formulation that uses a balance of molybdenum disulfide and surface modified synthetic graphite in a corrosion resistant calcium sulfonate complex base combined to provide protection for a wide variety of applications over a wide temperature range.

**550 Extreme** is the ideal product for petrochemical plant maintenance needs. Its composition offers maximum protection against seizure and heat freeze. **550 Extreme** eases assembling and dismantling saving man hours. It assures protection against rust, oxidation, and corrosion. It will not harden, evaporate, or settle out; and it requires no thinning.

**550<sup>®</sup> Extreme** utilizes a complex base grease that is fortified with effective rust and corrosion inhibitors and provides inherent anti-wear properties. Each principal anti-seize, low friction ingredient provides important properties and characteristics to **550 Extreme**.

As an added benefit, when compared to Anti-Seize compounds containing greater than 40% molybdenum disulfide the coefficient friction of **550 Extreme** is less sensitive to temperature. High molybdenum products can have substantial friction function drops when hot torqueing bolts are between 250-400°F.

- NO-VOC's
- When used in tandem with graphite stem packings improves conformance to API 622 Low "E" criteria.
- Valve bonnet bolts & Flange bolting.
- Lubrication of Valve Stem Assemblies
- Improves torque repeatability when used with XYLAN, DOXSTEEL & other coated Bolting assemblies
- Carbon Steel & High Nickel Alloy Bolting
- Heat Exchanger Breach Blocks & Bolting
- Delta Valve Bolting
- Coker Drum Head & Base Bolting

### APPLICATIONS

Use **550 Extreme** on:

Threaded Fasteners	Valve Stems
Slides	Fittings
Guides	Keyways

**550 Extreme** works well on steel, stainless steel, cast iron, titanium, copper, brass, alloys and plastic. It is an effective anti-seize for use with LPG and other gasses. For sealing applications, use V-2<sup>®</sup>.

CONFORMS TO:  
 Military Specification MIL-PRF-907F  
 Raytheon Specification M8656839 Type III  
 SERVICE RATING: -65° F (-54°C) to 2400°F (1316°C)

### PRODUCT CHARACTERISTICS

Thickener	Calcium Sulfonate Complex
Fluid Type	Petroleum
Color/Appearance	Black
Dropping Point (ASTM D-2265)	450°F (232°C)
Specific Gravity	1.22
Density (lb. /gal)	10.2
Oil Separation	<5.0
Wt. % Loss @ 212°F (100°C)	
Flash Point (ASTM D-92)	>430°F (221°C)
NLGI Grade	1
Penetration @ 77°F (ASTM D-217)	315 – 335
Nut-Factor*	0.17
1" B7 Studs @ 80,000 psi Contact Stress	
Copper Strip Corrosion (ASTM D-4048)	1A
4-Ball (ASTM D-2596)	
Weld Point, kgf	800
Load Wear Index	100
Salt Fog Resistance 20% NaCl @ 100°F	500
Hrs. Free of Corrosion (ASTM B-117)	

\*(T = K × D × F) where:  
 T = torque, K = nut factor, sometimes called the friction factor, D = bolt diameter, and F = bolt tension generated during tightening.