



ANTI-SEIZE TECHNOLOGY
A.S.T. Industries, Inc.



Why Use An Anti-Seize?

What to tell your customers

The general industrial community, from the biggest Petro/Chemical Facilities to the "One-Man Boiler Room" have always needed a product to solve the many problems associated with metal-to-metal contact. This contact is during equipment operation, assembly and disassembly procedures. Some of the problems are termed: Seizing, Galling, Cold Welding and Heat Freezing.

Further, these problems are related to, or, are accelerated by, Corrosion (Chemical and Environmental), Friction, High Temperature, Load and Torque. Solving these problems would extend equipment life and reduce maintenance costs.

Just What Is Required?

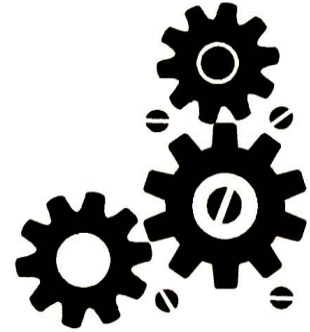
A lubricant to perform as a barrier or shield preventing deterioration of the metal surfaces. Oils and Conventional Greases are fine for some applications, however they do not last very well beyond temperatures of 400° to 500°F.

Thus, the Anti-Seize Compounds were developed to perform the lubricating job at higher temperature limits of various applications. They contain oils and greases for protection at the lower temperatures and are the vehicle for the metallic and other solids contained in the compounds.

After the oils and greases dissipate, the solid content of the Compound remains (in the threads, on the flanges, etc.) plating the metal surfaces to resist friction, rust, corrosion, and other detrimental conditions.

The presence of the "solid contents" in the Anti-Seize Compound is not only important at high temperatures (500° to 2600°F), but also enhances the Lubricant at lower temperatures. Copper, Graphite, Aluminum and others offer much higher load bearing pressures than greases alone can provided.

Continued On Next Page



Why Are Solids Important?

Anti-Seize Compounds insure ease of assembly, protection against Seizing from extreme Heat, Pressures, Corrosion and facilitates disassembly. The degree of protection and temperature limits are generally determined by the percentage and type of Solids present in the formula. For Example: usually the melting point of a metallic ingredient limits the temperature recommendation for a product; i.e. Copper @ 1800°F, Nickel @2600°F, Graphite @1100°F. Nickel has better chemical resistance than Copper and Aluminum; therefore, a Nickel-Based Anti-Seize is recommended for more corrosive applications.

Anti-Seize Technology has been manufacturing the highest quality Anti-Seize Compounds for over 28 years. Recently we added to our product line Poly-Temp® Anti-Seize Tapes. Available in Copper, Nickel and Food Grade Ceramic.

Features & Benefits

- *Protection against Rust & Corrosion
- *Reduces Friction - Provides Constant Torque/Tension
- *Speeds Assembly and Disassembly
- *Prevents Seizing, Galling & Cold Welding
- *Non-hardening & Non-dripping
- *Retards Galvanic Action between Dissimilar Metals

Shelf Life

Anti-Seize Compounds have no change in consistency or appearance more than one year in a closed container. Shelf life may be longer depending upon storage location.

Typical Applications

FLANGES & FITTINGS

MOTOR MOUNTS & ADAPTORS

CAM ROLLERS & GUIDES

GLAND PLATES & VALVE STEMS

PRESS FITS & KEYWAYS

HEAVILY LOADED & SLOW MOVING BEARINGS

PUMPS & VALVES

SHAFTS & DRIVES

NUTS & PLUGS

PUNCHES & DIES

DRILLS & TAPS

BOLTS & STUDS

GEARS & PULLEYS

CENTERS & SLIDES

TUBING & UNIONS

CHAINS & LIFTS

COUPLINGS & JOINTS