



## MIL907

### High Temp and High Pressure Anti-Seize Compound

MIL-PRF-907 Rev. F

This specification covers anti-seize compounds for use on threads of steel nuts, studs, bolts, and other mating surfaces, including superheated steam installations, at temperatures up to 1050°F.

NON-CORROSIVE  
LOW & HIGH TEMPERATURE APPLICATIONS  
HIGH PRESSURE APPLICATIONS  
LOWERS FRICTION  
PREVENTS SEIZING and GALLING  
NON-CURING  
REDUCES TORQUE



### DESCRIPTION

Anti-corrosion quality – MIL907 not only has a high corrosion resistance but also prevents oxidation and corrosion in the materials to which it is applied. This quality makes it a standard for all-around use in chemical plants and refineries

Anti-Seize and High Temperature Qualities – The compound remains as an effective anti-seize, even to the fusing or melting point of the surrounding metals. The hydrocarbon vehicle volatilizes out between 600° to 700° leaving only the pure lead, which becomes liquid at about the same temperature. On cooling, the lead solidifies as a fine metallic ash and still retains its lubricating and sealing qualities. Recommended uses include steam and gas turbines, refinery units, boilers, railroads and aircraft.

Low temperature usage – The compound forms an effective seal for equipment handling liquid nitrogen at -350°F. It is recommended for pipe sealing applications at temperatures to -100°F. High Pressure Applications – Increasing pressure causes lead particles to pack more closely, strengthening the seal. MIL907 has been tested up to 100,000 PSI Hydraulic fluid lines. Anti-Seize (Metal to Metal) MIL907 prevents a corrosion weld between metal to metal surfaces. This feature is important from the standpoint of maintenance of heavy industrial equipment.

Anti-Galling or Anti-Freezing – The compound forms a thin pure lead coat on metal while filling all voids and smoothing the surface. Friction is greatly reduced and less torque is needed for assembly and disassembly. Because the joined metals are isolated from moisture and oxygen, deterioration by galvanic action is impossible. In the same manner hydrogen embrittlement is prevented.

MIL907 is particularly useful for materials, which gall easily, such as aluminum and stainless steel.

Lubricating Qualities – Although not recommended as a bearing lubricant, except for very loose journal bearings (its plating action will freeze close tolerance bearings), MIL907 is valuable as a lubricant in many tapping, machining and metal forming jobs.

### ADDITIONAL INFO

#### Available in

4 oz. can, NSN 8030-00-059-2761  
1 lb. plain top can, NSN 8030-00-251-3980  
1 lb. brush top can, NSN 8030-01-607-8134  
2.5 lb. can, NSN 8030-00-597-5367  
5 lb. can, NSN 8030-00-286-5453  
50 lb. pail, no NSN

NLGI Grade: 2-4 approx.

Color: Dark Grey

Physical State: Paste

Specific Gravity: 1.93

Additive Type: Mineralized Lead

Flash Point: 404°F

Service Range: -350°F to +1050°F

**Note:** Products listed are suggestions. The information on this site will not replace your testing and evaluation procedures. Ultimate product selection should be based on your test results and the specific performance requirements.

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