

MIL907

Armite's MIL907 High Temp Anti-Seize Compound A Military Grade High Temp and High Pressure Anti-Seize Compound Complies & Conforms to MIL-PRF-907 Rev. F

MIL907 is for use on such applications as threads of steel nuts, studs, bolts, and other mating surfaces including superheated steam installations, at temperatures up to 2987°F (1641.67°C). Exceeding the High-Temperature service range required under MIL-PRF-907F by 1967.79°F (1075.44°C) This compound also contains pure lead powder suspended in a non-volatile hydrocarbon vehicle and does not dry out, even when exposed to the atmosphere. Because lead is one of the least reactive of the metallic elements, the compound is highly non-contaminative and is impervious to the effects of salt, water, steam, oils, ammonia and hydrocarbons. MIL907 is only prohibited from use with pure oxygen and Freon gases.

1. NON-CORROSIVE
2. LOW AND HIGH TEMPERATURE APPLICATIONS
3. HIGH PRESSURE APPLICATIONS
4. LOWERS FRICTION
5. PREVENTS SEIZING AND GALLING
6. NON-CURING
7. 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 compound, even to the fusing or melting point of the surrounding metals. The hydrocarbon vehicle melts away 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 Use – The compound forms an effective seal for equipment handling liquid nitrogen at -350°F. It is recommended for pipe sealing applications at temperatures of -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 that gall easily, such as aluminum and stainless steel.

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

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

Typical Characteristics:

Color: Dark grey
Physical State: Semi-solid paste
NLGI Grade: 2-4 approx.
Specific Gravity: 1.93
Flash Point: 404°F (206°C)
Additive type: Mineralized Lead
Service Range: -350°F to 2987°F (-212°C to 1641°C)

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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