



LP-250

High Temp High Pressure Anti-Seize Thread Compound

Commercial Grade

LP-250 is a sealing compound that prevents seizing or galling at temperatures ranging from -350°F to 2987°F. This compound consists of 70% pure lead powder and 30% non-volatile hydrocarbon vehicle and does not dry out, even when exposed to the atmosphere. Due to the fact that 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. LP-250 is only prohibited from use with pure oxygen and Freon gases.

ANTI-CORROSIVE
ANTI-GALLING and ANTI-FREEZING
IDEAL FOR HIGH and LOW TEMPERATURE APPLICATIONS
IDEAL FOR HIGH and LOW PRESSURE APPLICATIONS
SEALS AND LUBRICATES



DESCRIPTION

Anti-corrosion quality – LP-250 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. LP 250 has been tested up to 100,000 PSI Hydraulic fluid lines. The use of gaskets and filler compound (LP-250F) may be required if fitting tolerances are too liberal or if the high pressure fitting threads are coarse.

Anti-Seize (Metal to Metal) LP 250 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.

LP 250 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), LP-250 is valuable as a lubricant in many tapping, machining and metal forming jobs.

ADDITIONAL INFO

Available in

2.75 oz tube, 1 lb. plain top can,
1 lb. brush top can, 5 lb. can, 50 lb. pail

Typical Characteristics

Color & Consistency: Dark Grey Paste

Odor: Light Petroleum

Melting Point: 140° F

(Melting point of Lead >600°F)

VOC: None

Boiling Point: >300° F COC

Flash Point: 404°F (207°C)

Specific Gravity: 1.93

Performance Temperature Range: -350° F to +3000°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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