

AS-PLUS PASTE (Anti-seize compound Solid Lubricant)

Molybdenum disulfide (MoS₂) and solid lubricants based paste for effective running in, assembly, press fitting and anti-seize applications

DESCRIPTION:

AS-PLUS PASTE is a NLGI 1.5 consistency, anti-seize compound paste for effective running in, assembly, press fitting and anti-seize applications. The combination of synthetic oil mixture and several lubricating quality solid lubricants ensures an outstanding anti-seize and sealing compound for general maintenance and installation procedures used in industrial, mining and marine applications. The product contains anti-rust, anti-oxidant and extreme pressure additives, is lead free and contains high performance solid lubricants. It provides perfect protection under all types of corrosive conditions and which, even after years, enables the user to loosen threaded connections of all types with a minimum of effort, thus saving material and labour. For even better results and longer life apply the thread grease and place in position. Apply solvent resistant silicone sealer around the contact points between the bolt and body/nut.

APPLICATIONS:

- **AS-PLUS PASTE** is ideally suited for use in assembling of intake and exhaust manifold studs, cylinder head studs, boiler and head gaskets, face plate studs, gas burner connections, steam pipe threads as well bolts and nuts used on flange connections.
- **AS-PLUS PASTE** assists in sealing all types of high pressure joints whether under hot or cold conditions and does not harden. It can be used for press fits and helps prevent fretting corrosion on shafts and housings when assembling ball and roller bearings. When used on threads it does not alter the torque procedures required.
- Works well on all automotive passenger and truck wheel nuts & bolts.
- Due to the unique solid lubricants configuration application materials include the following main metals: Mild Steel, Stainless steel, Bronze, Copper, Galvanized and many more.
- As a running-in, metal priming paste for all new or rebuilt mechanical equipment such as journal bearings, gear boxes, splines.
- As a press-fitting lubricant to reduce press-fitting power required and prevent misalignment, seizure, wear, distortion especially under heavy load conditions.
- For lubrication of all sliding metal surfaces to reduce wear, friction and prevent cold-welding of surfaces such as for shafts, bushes, splined shafts, pumps, valves, threaded spindles, toothed gears, worm gears and transmission gears, lead screws, machine tool guides, pumps, flanges, anti-friction bearings.
- As a metal working lubricant to prevent galling, seizure, welding and metal pick up on tools and dies in deep drawing, machining, punching, stamping, thread rolling, cold heading, swaging and forging.
- As a universal assembly paste to reduce tightening torque required; for enabling easy and non-destructive disassembly of components after long operational hours under operating and temperature variations.
- As an antifriction and anti-wear lubricant for heavily loaded surfaces under slow sliding speeds for preventing cold welding of sliding surfaces under heavy loads.
- As a standard anti-seize compound for all threaded connections during assembly stage for maintenance free dismantling.

PERFORMANCE BENEFITS:

- Prevents corrosion, prevents seizure.
- Assists in sealing and does not harden.
- Long service life, saves on time and labour.
- Prevents damage to components during disassembly.
- Extremely wide service temperature ranges of -30°C to +450°C (up to +630°C in areas with restricted air access).
- Low coefficient of friction & High pressure withstanding capacity.
- Load bearing capacity exceeds the yield point of most metals.
- Offers protection from wear and friction, eliminates metal-to-metal contact & Prevents seizure, scoring, galling, fretting corrosion, prevents cold welding and stick slip.
- Makes disassembly easier and non-destructive irrespective of operational period or conditions.
- Economical to use owing to its high surface coverage capacity.
- Aids running in and provides emergency lubrication during startups.

SPECIFICATIONS

GRADES	AS-PLUS PASTE
Base oil Type	Synergetic (synthetic oil mixture)
Colour & Appearance	Grey - black, Smooth & Homogeneous paste
Base oil Type	Synergetic (synthetic oil mixture)
Solid lubricants and additives in oil content %	Mo _x -Active & Molybdenum disulfide 33%
Drop Point, °C min	Non-drop
NLGI Consistency	1.5 (1 & 2)
Work Penetration	280-310
Density (at 20°C) g/cm ³	1.26
Coefficient of friction, press-fit test	0.10, no scatter
4-Ball Weld Load in kgs	+360
Four ball test, wear scar, 800N load	0.75
Copper Corrosion, 2h (100°C)	1a
Water washout@ 79°C % wt.	4 to 5
Salt Spray Test, hrs	> 500
Operating Range, °C	-30°C to +450°C
Lower Operating Temperature	-30
Upper Operating Temperature	+450
Upper Operating Temperature	1300
Coverage in m ² /kg	40
Breakaway Torque Nm	< 2,7 x tightening torque

Directions for Use

Clean the sliding surfaces and friction points. Apply this paste with a brush or cloth and rub intensively on the metal surface to form a thin uniform film. Do not use in excess as is customary with greases. Do not mix with other oils or grease.

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