



Aerolube Technologies



Technical Data Sheet

5001 MOS₂ AND SOLID LUBRICANTS BASED PASTE

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

Applications

- 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.

Benefits

- Extremely wide service temperature range of -25°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 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 start ups
- Prevents cold welding and stick slip
- Good affinity for metal surfaces

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

Caution

Do not spray near naked flame, hot surfaces or energized equipment. Use with adequate ventilation.

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TECHNICAL PROPERTY

PARAMETER	VALUE	UNIT	METHOD
Type	Solid lubricants and additives in oil		
Appearance	Smooth homogenous paste		
Color 1	Grey - black		
Penetration - unworked	280-310	mm/10	ASTM D 217
NLGI Class	1-2		DIN 51 818
Density, @ 25°C	1.30 -1.50	g/cm ³	
Drop point	None	°C	ASTM D 566
Service temperatures 2	-25 to +450	°C	
Coverage	40	m ² /kg	
Coefficient of friction, press-fit test	0.10, no scatter	μ	
Four ball test, weld load	2800	N	DIN 51 350 pt. 4
Four ball test, wear scar, 800N load	0.75	mm	DIN 51 350 pt. 5
Copper strip corrosion, 2h (100°C)	1a	Pass	

1. Minor color variation of the same product but of different batches could be possible. However lubrication values remain unchanged.
2. In areas with restricted to air, the solid lubricants will maintain lubrication up to +630°C

General

Use in well ventilated areas. Avoid continuous breathing of vapor and spray mist. In closed areas or areas with poor ventilation, use respiratory protection. For complete details on safety, short and long term exposure, refer to this product's safety data sheet (SDS).

Available Packaging

1 Kg, 5 Kg

Shelf Life

60 months from date of manufacture in sealed condition.

Disposal

All used and unused product should be disposed of in accordance with state regulations.

Handling

Read instructions on the container label of the product before use. The product safety data sheet (SDS) contains the relevant information regarding personal protective equipment, safe use, physical and health hazards. Safety data sheet is available from Aerolube or your local Aerolube distributor.

Limited Warranty

The information and data contained in this sheet is accurate to the best of our knowledge or is obtained from sources, tests or experiences believed by us to be reliable and accurate. User is responsible for determining whether recommended Stanvac product is fit for a particular purpose. All products should be tested for suitability on a particular application prior to actual use. We make no representations of any kind. Data offered without warranty. Product manufactured is for industrial use only.

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