



Molysulf V

Powder

(Formerly known as Molysulf JS-9 Powder)

Highly refined and pure molybdenum disulfide powder

Applications

- For effective break in or running in of components to prevent excessive wear, friction, galling, seizure of newly assembled machined surfaces.
- As a press fitting lubricant to avoid distortion, misalignment, seizure, galling and reduce pressures required. Makes assembly easy and disassembly non-destructive.
- For preventing cold welding and fretting under static loads.
- For extending wear life of metal components.
- For lubrication of sliding surfaces under slow speeds and heavy loads where an oil film cannot be maintained.
- As a metal release agent for preventing sticking of material during casting.
- As a metal forming lubricant to prevent galling, metal pick up, reduce friction and heat and increase wear life of tools and dies in machining, stamping, cold forming, thread cutting operations.
- As a pretreatment to all sliding surfaces to prevent excessive wear and provide lubrication under vibration and shock loads.
- For lubrication of components exposed to extreme environments as liquid or gaseous oxygen, radiation, and vacuum.
- As an extreme pressure additive to lubricating oils and greases to reduce friction and wear.
- For incorporation and impregnation into plastics, rubbers, metals for low frictional properties as for plastic bearings, rods, bushes, gears, O-rings, seals.

Benefits

- Extremely wide service temperature range of -185°C to +450°C
- Very good affinity to metal surfaces
- High surface pressure carrying capacity
- Reduces wear and friction
- Does not attract or accumulate dust and dirt
- Very low coefficient of friction
- Very effective for lubrication under vacuum and radioactive conditions
- Chemically inert and resistant to solvents, steam, heat and liquid oxygen

Directions for Use

Clean and degrease the surface prior to application. Apply by tumbling, burnishing, rubbing or polishing on the surface.

Technical Information

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Technical Properties

Property	Value
Type	Powder
Appearance	Free flowing, lump free micro fine solid particles
Color	Gray black
Density, g/cc	4.8
Purity	98.5 %
Average particle size, μ	2.5 - 5
Magnetic properties	Non magnetic
Load bearing capacity	Exceeds yield point of most known metals
Special properties	Lubricates under pressures exceeding 500,000 psi. Unaffected by liquid oxygen, vacuum and suitable for use near radioactive areas. Non conductive Confirms to Military specifications MIL-M-7866
Service temperature range, °C	-185 to +450 under normal conditions (up to +1100 under vacuum conditions)

Available Packaging

- 1kg container

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).

Disposal

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

Shelf Life

36 months from date of manufacture in sealed condition

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 ASV or your local ASV 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 ASV® 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.

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MOLYSULF® & ASV® Specialty Lubricants & MRO Technical Chemicals.

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