

DF 8221 Coating

Fast air drying MoS₂ based anti-friction coating / lubricant

Product description

- Dispersion of microfine molybdenum disulfide in inorganic binder for oil and grease free lubrication

Applications

- Metal pretreatment lubricant prior to assembly.
- For components exposed to critical environmental conditions as vacuums, radiation, high temperatures, humidity.
- High temperature thread compound to prevent seizure and facilitate easy assembly & non-destructive disassembly.
- Anti friction coating for metal cutting tools as millers, reamers, taps, drills, gear cutters, punches, dies to prevent sticking, binding and metal build up; increase life of tools, production quality and efficiency.
- EP lubricant for heavily loaded or stressed surfaces exposed to abrasive or dusty environments to prevent wear, friction, galling, scuffing, seizure and fretting as for press fits, pins, levers, chains, bolts, levers, pivots, bearings, gears, splines, journals, linkages.

Features & benefits

- Service temperature range of -180°C to +450°C
- Low coefficient of friction
- High surface load and pressure withstanding capacity
- Oils, grease and solvent resistant
- Prevents stick-slip and fretting corrosion
- Provides clean dry film lubrication and does not accumulate dirt or abrasives
- Offers surface protection from corrosion
- Lubricates under adverse operating environments such as in vacuum or near radiation
- Excellent lubricity and highly abrasion resistant

How to use - Aerosol

Shake can vigorously for a couple of minutes before spraying till bearing noise from inside the container is audible. Repeat before every application. Spray on clean, dry and degreased surface. Only thin film of this lubricant is required. Allow solvents to evaporate. Spray from a distance of 20-30 cm. Repeat if necessary. Excess lubricant may fall off during assembly. For cleaning valve dip-tube after spraying, invert can and depress actuator button for a few short bursts till only clear propellant comes out.

Caution

Contains flammable solvents and propellant. Do not spray near naked flame, hot surfaces or energized equipment. Use with adequate ventilation.

How to use - Bulk

Clean and degrease surface completely prior to application. Phosphating or sandblasting the metal surfaces will increase adhesion of the film and increase service life. Stir ASV® DF 8221 thoroughly before applying by spraying, brushing or dipping methods. Recommended film thickness is 5 to 20 µm. Use as supplied. Never dilute or mix with other oil or grease.

Test	Unit	Result
Appearance		Hydrocarbon gas propelled liquid
Description		Dry film lubricant
Colour		Gray black
Odor		Mild
Film type		Paint like
Specific gravity concentrate	g/cm ³	0.61-0.63
ISO VG grade		N/A
Evaporation rate		N/A
KB value		N/A
Dielectric strength		N/A
Plastic safe		N/A
Service temperature range	°C	-180 to +450
Flash point	°C	-25°C (closed cup) aerosol
Flammability class		Extremely flammable
Film thickness	Mils	N/A
Dry time, full dry	m	30
Dry time, tack free	m	10
Recoat	M	30
Method of removal		Industrial degreaser or paint remover
Four ball weld load	N	N/A
Four ball wear	mm	N/A
NSF category code		N/A
NSF number		N/A
Solubility in water		No
Coverage	m ² /can	2-4
Propellant		Hydrocarbon
Shelf life	months	36 from date of manufacture

N/A: not applicable

General

Use in well-ventilated areas. Avoid continuous breathing of vapor and spray mist. For complete details on safety, short and long term exposure, refer to this product's safety data sheet (SDS).

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.

Manufactured by:
ASV Multichemie Private Limited
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Disposal

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

Limited warranty

Product manufactured is for industrial use only. 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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