



Aerolube Technologies



Technical Data Sheet

3018 ANTI FRICTION COATING

FAST AIR DRYING MoS₂ BASED ANTI FRICTION COATING

Applications

- As a dry film lubricant for components exposed to abrasive or dusty environments as threaded connections, pins, levers, pivots, splines, bolts, chains.
- As a metal pretreatment lubricant prior to assembly for effective running in to reduce wear, friction and eliminate metal to metal contact and seizure.
- As a lubricant for components exposed to critical environmental conditions as vacuums, radiation, high temperatures, humidity.
- As a heavy duty, high temperature thread compound to prevent seizure and corrosion and facilitate easy assembly and non-destructive disassembly.
- As an 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.
- As an extreme pressure lubricant for heavily loaded or stressed surfaces to prevent wear, friction, galling, scuffing, seizure and fretting as for press fits, pins, levers, pivots, bearings, gears, splines, journals, linkages.

Benefits

- Service temperature range of -180°C to +450°C
- Low coefficient of friction; high surface load and pressure withstanding capacity
- High and low temperature performance
- Protects surfaces from wear, galling and seizure
- 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
- Provides maintenance free permanent lubrication where oil or grease contamination cannot be tolerated
- Excellent lubricity and highly abrasion resistant
- Increases service life of equipment

Directions for Use (bulk)

Clean and degrease surface completely prior to application. Phosphating or sandblasting the metal surfaces will increase the adhesion of the film and increase service life. Stir Stanvac 3018 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.

Directions for Use (aerosol)

Shake the can vigorously for a couple of minutes before spraying till the bearing noise from inside the container is audible. Repeat before every application. Spray onto a clean, dry and degreased surface. Only a 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 the valve dip-tube after spraying, invert the can and depress the actuator button for a few short bursts till only the clear propellant comes out.

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

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TECHNICAL PROPERTIES

PARAMETER	VALUE
Type	Solid lubricants and additives in inorganic binder and solvent
Appearance - as supplied	Thin liquid
- on curing	Dry paint type liquid
Color	Gray black
Odor	Mild solvent
Solvent type	Non chlorinated
Density, g/cc	1.0 -1.1
Service temperature range, °C	-180 to +450 (up to +630 in areas with restricted air access)
Curing period	Air dries to touch in 1 minute at room temperature and completely in 5 minutes
Recommended film thickness, µm	5-20
Radiation resistance, rad	10 ⁹
Special properties	Excellent adhesion on all types of surfaces.
Propellant (aerosol only)	Non CFC

* of active ingredients

Available Packaging

500 ml Aerosol Spray, 5 Kg

Shelf Life

24 months from date of manufacture in sealed condition.

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.

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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