



Bringing Quality & Excellence

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# TECHNICAL DATA SHEET

## MOLY-Mist™ MoS<sub>2</sub>Dry Film Lubricant

### DESCRIPTION

MOLY-MIST consists of micro-fine MoS<sub>2</sub> suspended in a unique quick drying liquid. It bonds a tough low-friction coating on to surfaces without heating or baking. It forms a touch dry layer quickly and bonds tenaciously within minutes. Molybdenum disulphide (MoS<sub>2</sub>) is a solid lubricant with coefficient of friction of only 0.03. Under sliding pressure, it will bond to ferrous and non-ferrous metals, plastics, glass, rubber, wood, etc. It has good thermal and chemical stability and is inert to water, oil, alkalis, many acids and solvents. MOLY-MIST lowers friction, prevents galling, seizure, stick-slip, fretting, corrosion and metal-to-metal contact. It reduces torque and power loss. It can be applied while equipment is in motion and is used to coat hard to reach and irregular parts. MOLY-MIST is used wherever a dry lubricant is needed, especially in extreme temperature and hostile environments, where friction must be minimised.

### ADVANTAGES

- Lead Free.
- Noncorrosive.
- Quick dry bonding.
- Highly tenacious.
- Enhances machined Surfaces.
- Bonds to ferrous and nonferrous metals.

### APPLICATIONS:

MOLY-MIST provides lubrication where liquid lubricants are not practical. In particular, it makes an excellent pre-assembly lubricant. In this application, it provides lubrication to wearing surfaces to prevent galling when they move for the first time after assembly. It then goes on to create the smoothest surfaces possible.

General applications include: fasteners, threads, gears, dies, taps, chains, packings, sprockets, cables, idler wheels/pulleys, power screws, chucks, steady rests, swivels, sleeve bearings, wrist pins, pistons, cylinder walls, valve stems, cam shafts, jigs, fixtures, plungers, polished rods, conveyors, acme screws, lathe beds, ways, valve plugs, lorry shackles, brake anchor pins and bushings, piston rods, rings, sleeves, trunnion U Bolts, open chains and rollers, adjustment bolts and all parts subject to dirt and corrosion.

### PRODUCT CHARACTERISTICS

|                                 |                                     |
|---------------------------------|-------------------------------------|
| Service range:                  | -184°C (-299°F)<br>to 399°C (750°F) |
| Spray Diameter @300mm distance: | 50-100mm                            |
| Propellant:                     | Hydrocarbon                         |
| Solvent type:                   | Aromatic/Ketone                     |
| Resin:                          | Thermal Silicone                    |
| Molybdenum Disulphide Purity:   | 99%                                 |
| Particle size below 5 microns:  | 100%                                |
| Film Appearance:                | Black Opaque                        |
| Dry Time:                       | 15 Minutes                          |
| Cure Time @ Ambient:            | 72 Hours                            |
| Cure Time @ 177°C (351°F):      | 1 Hour                              |
| Typical Film Thickness:         | 25 microns                          |
| Specific Gravity:               | 0,9                                 |
| Flash Point (Bulk):             | -20°C (-4°F)                        |
| Flash Point (Propellant):       | -60°C (-76°F)                       |

**NB: Do not spray directly on hot surfaces**

### PACKAGING

| Code     | Net contents | Container |
|----------|--------------|-----------|
| 28026228 | 340g         | Aerosol   |
| 46172402 | 5l           | Pail      |
| 33729145 | 189l         | Drum      |

### LIMITED WARRANTY

Jet-Lube (UK) Limited makes the Limited Express Warranty that at the date of delivery, this product shall be free from defects in Jet-Lube (UK) Limited materials and workmanship. This limited Express Warranty is expressly in lieu of any other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose, and of any other obligation on the part of Jet-Lube (UK) Limited. The sole remedy for breach of the Limited Express Warranty shall be the refund of the purchase price. All other liability is negated and disclaimed, and Jet-Lube (UK) Limited shall not be liable for incidental or consequential damages.



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