



# TECHNICAL DATA

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## 308 MOLY DRI-PLATE SPRAY

### Description

Moly Dri- Plate Spray is a colloidal dispersion of molybdenum disulfide in a non-chlorinated solvent that dries quickly to a thin coating when applied. Moly Dri-Plate Spray is designed for applications where an extreme pressure, high temperature dry lubricant is desirable.

### Benefits and Features

Once dispersed onto the metal's surface the molybdenum disulfide plates itself to the metal surface to form a long lasting solid lubricant film. This solid lubricant film will withstand pressures up to 500,000 pounds per square inch, thus providing the metal surfaces the protection needed during periods of high shock loads and extreme pressure.

This molybdenum disulfide solid lubricant film also helps to reduce friction resulting in reduced wear, a reduction in contact area temperatures, and the prevention of the galling, seizing and fretting of the rubbing metal surfaces. This in turn results in increased equipment life and less downtime.

The typical film thickness for the molybdenum disulfide film once it is applied typically ranges from 5 to 12 microns (0.2 to 0.5 mil).

Moly Dri-Plate Spray contains no chlorinated solvents or ozone depleters

### Method of Use

#### Surface Preparation

The surface of the metal to which the Moly Dri-Plate Spray is applied to should be clean and dry. A solvent wipe followed by an air dry is sufficient for smooth surfaces. For porous surfaces, use the same procedure followed by heating to drive off any entrapped contaminants, solvent and moisture.

### Drying

The coating of molybdenum disulfide dries within minutes. When the product is applied in high humidity conditions, the coating may become mottled in color. This however does not affect the products performance.

### Compatibility

Moly Dri-Plate Spray is compatible with all types of ferrous and non-ferrous metals. The solvent system used in the Moly-Dri Plate Spray is not compatible with the following materials.

- Nylon
- Polyacrylate

### Typical Applications

Moly Dri-Plate Spray is recommended as an extreme pressure and high temperature lubricant for the following applications:

- Engine components for assembly and break-in requirements
- Mating surfaces of assemblies and machinery components
- Mechanisms, tumbler locks
- Relays and switches
- Plug and threaded gauges
- Oven, furnace and kiln chains
- Punches
- Machine tool ways and guides
- Threaded connections
- Conveyor chains
- Assembly and press fitting
- Drills, taps and dies

### Storage and Handling

The shelf life for Moy-Dri Plate Spray is 2 years from the date of manufacturer in its original container. Do not store near heat, spark, flame or strong oxidizers. Containers are under pressure and may explode if heated. Store the product in a cool dry, well ventilated place. Protect the product from direct sunlight. Keep containers closed when not in use. Do not store at temperatures above 120°F (49°C). Store in accordance with National Fire Protection Association recommendations or applicable National, Provincial and local laws and regulations.

Avoid breathing vapors or mists. Use with adequate ventilation. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling and before eating, smoking or using toilet facilities. Do not swallow product. Do not eat, drink or smoke in work areas.

### TYPICAL PROPERTIES

Specific Gravity	0.8
Service Temperature Continuous °F/°C	390°/200°
% VOC by Weight	97.6