

## MoS<sub>2</sub> Powder 330-MOS2-10G

### FEATURES

- Reduces torque and friction
- Withstands pressures approaching 3,500,000 kPa (500,000 psi)
- Resists liquid or gaseous oxygen, radiation, chemical and vacuum environments
- Meets AMS 7866 (MIL-M-7866) specification
- Serviceable temperature range from -225 to 400°C (-375 to 750°F)
- Helps prevent fretting corrosion, galling and seizing
- Low coefficient of friction
- Adheres to many surfaces
- Lubricates in the presence of (and resists) most chemicals and solvents
- Has an average particle size of 4 to 10 microns

### COMPOSITION

- Molybdenum disulphide powder

### APPLICATIONS

MoS<sub>2</sub>-Powder effectively lubricates most kinds of metal surfaces in such difficult and extreme environments as:

- *Run-in* – MoS<sub>2</sub>-Powder helps to prevent galling and seizing of newly assembled metal surfaces during the critical run-in period.
- *Press Fitting and Fretting* – A lubricating film of molybdenum disulphide works to reduce the pressures required to press fit, especially on negative clearances, thus reducing the chance of seizure, misalignment and distortion. This lubricant also helps control the tendency for fretting and cold welding of metal surfaces under static pressure in ball and roller bearings, bushings, splines, etc. Disassembly is usually non destructive.
- *Heavy Loads and Slow Speeds* – MoS<sub>2</sub>-Powder is effective in lubricating metal surfaces under boundary conditions where an oil film cannot be maintained, i.e. where surface speeds are slow, loads are extremely heavy or involve vibration and shock.
- *Metal Working* – This lubricant helps prevent galling, welding and metal pick up on tools and dies in machining, stamping and drawing, bending, thread rolling, cold heading and swagging.
- *Extreme Environments* – Difficult conditions such as in dusty atmospheres, temperature extremes, radiation, vacuum, liquid or gaseous oxygen, where ordinary lubricants typically fail.
- *Metal Machine Parts* – The excellent adherence and wear resistance of this powder helps aid in extending the life of metal cams, bearings, ways, gears and other parts.
- *Reduction of Friction for Plastics, Sintered Metals and Rubber* – To give low frictional properties, MoS<sub>2</sub>-Powder may be burnished on, or incorporated into, metal and plastic bearings and gears, O-rings, packings and seals where conventional oil lubrication cannot be used.

### HOW TO USE- Application Methods

- *Burnishing*; rub in with cloth
- *Tumbling*; excellent for instrument parts, camera shutters and other small components.
- *Incorporation as an ingredient in plastics, elastomers and sintered metals.*
- *Dusting*; products available in squeeze bottles with a nozzle for penetrating keyholes and small orifices.