

**MOLY PASTE (MOS2 BASED)  
ISOL MP 101**

**COMPOSITION**

ISOL MP 101, Moly Paste contains high concentration of Molybdenum disulphide, lithium soaps, mineral oils and other specialty solid lubricants.

**FEATURES**

Moly Pastes are designed to prevent damage to surfaces while sliding against each other at high loads and low speed such as assembly or disassembly of bearings, press fitting etc. It provides closer fits without jamming and lowers the force required during assembly of close or tight fitting parts. Its special lubricating properties provide lubrication up to the yield point of most metals.

**DESCRIPTION**

The excellent lubricating properties of ISOL MP 101 is due to the hexagonal structure of its constituent, Molybdenum disulphide, which has alternate layers of molybdenum and sulphur atoms. When a Moly Paste is applied to metal surfaces, the Molybdenum disulphide in the paste makes layers on the metal surface known as lamellae. These lamellae are practically incompressible and thus are capable of withstanding tremendous load up to 5,00,000 psi. Although the lamellae cannot be compressed, they do not resist shear forces (sliding friction). Infact they provide excellent lubrication due to their ability to slide over each other without any resistance. Layers formed by this paste of metal surfaces are serviceable from - 25 °C to 550 °C. having extremely low coefficient of friction, it protects components, during critical wear in damages, from fretting, seizure and galling. It handles extreme pressures and gives complete protection during critical start up and running in period.

**TYPICAL SPECIFICATIONS**

Product name	Moly Paste
Grade	ISOL MP 101
Colour	Black
Consistency	Soft
Serviceable temp. °C	-20°C to 550°C

**APPLICATIONS**

Assembly of pin bearing, pistons, gears, wheels, fly wheels, key-ways, bolt screws and nuts, bushings, spline shafts, slide-ways guides, universal joints, chucks, machine tools etc.

**SHELF LIFE**

ISOL MP 101, Moly Paste does not exhibit any significant change in properties if stored properly in original packs for over two years. Slight hardening of grease or slight oil bleeding is considered normal and is reversible by agitation. However, warranty claims, in case of manufacturing defects is limited to one year from date of manufacturing.

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