



# MP-50®

## MOLYBDENUM DISULPHIDE PASTE

### DESCRIPTION

**MP-50 MOLY PASTE** is a non-melting, lubricating compound that contains a high percentage of molybdenum disulphide. Being a thick paste, it can be applied by brush or spatula to surfaces at temperatures between -18°C, where many other lubricants would solidify and 204°C, where it will not run off or drip.

After application, **MP-50** will provide protection as a solid film down to -185°C.

The Molybdenum disulphide remains nearly inert in operating conditions up to 399°C. If operating in an air-free environment, its lubricating range can be extended up to 1090°C.

**MP-50** provides low friction lubrication by plating in a manner that fills in microscopic voids to give a smoother running surface. It has excellent load carrying and anti-seize properties because it adheres strongly to metal surfaces and has a film strength of 300,000 PSI.

**MP-50** resists water and climatic extremes.

**MP-50** also provides corrosion protection caused by water, steam, most acids and alkalis.

### ADVANTAGES

- High Molybdenum disulphide content
- Lead-free
- Prevents seizure
- Lowers friction
- Prevents stick-slip
- Non-melting
- Prevents corrosion
- Water resistant

### APPLICATIONS

- Pre-assembly lubricant for camshafts, press fit/shrink fit components. etc.
- Heavy gear/chain lubrication
- Life extending mandrel lubrication
- Valve stem lubrication
- Specified Lubricant in NAVSEA TMS S 9558-AA-MMA-100 Volume 10 Book 1 publication for Miratta valves

### PRODUCT CHARACTERISTICS

Service range (after application)	
-185°C to 399°C ( -300 to 750°F)	
Brushable range	-18°C to 204°C
Thickener:	Organo Clay & MoS <sub>2</sub>
Fluid Type	Petroleum Oil
Colour/Appearance	Black Paste
Dropping point (ASTM D-566)	None
Specific Gravity	1.7
Oil Separation	<1.0%
(Wt loss @ 100°C)	
Flash Point (ASTM D-92), Typical	>221°C (430°F)
NLGI Grade	3½
Penetration	205 - 235
Copper Strip Corrosion	1A
(ASTM D-4048)	
Oil Separation, Wt %	<1.0%
(24Hrs @ 100°C)	
Shell 4-Ball, kgf	>250
Weld Point (ASTM D-2596)	
Friction Coefficient	0.06
(on stainless steel)	
K factor (80,000psi 1" B7 stud)	0.17

### PACKAGING

Code No.	Size	Container
JA28003	12 x 500g	Tub
JA28007	6 x 1 kg	Tub
JA28023	5 kg	Pail
JA28050	12.5 kg	Pail
JA28015	20 kg	Pail

### 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