

MP-50™

Moly Paste



TECHNICAL DATA SHEET

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DESCRIPTION

MP-50™ Moly Paste is a non-melting lubricating compound containing a high percentage of low-friction molybdenum disulphide (MoS₂). A thick paste, it can be applied by brush or spatula. **MP-50** has a lubricating range of -25°C to 400°C (-13°F to 750°F). When employed in mechanical components not exposed to air, good lubrication results can be anticipated up to 1090°C (2000°F). Contained MoS₂ is chemically stable and is attacked by few strong reagents. If the grease vehicle should be squeezed out, disrupting normal hydrodynamic lubrication, the moly-disulphide remains to protect working surfaces. It assists in boundary lubrication by filling microscopic voids. **MP-50** 'plates' metal surfaces, reducing high points and increases the load carrying area. It provides a low-friction shield to reduce bearing temperatures, protect working parts, prevent galling, seizure, stick-slip and heat-freeze. **MP-50** has a film strength of 300,000 psi and adheres tenaciously to metal surfaces.

MP-50 may be applied directly to hot surfaces without running off or dripping. Conversely, it may be applied at temperatures as low as -18°C (0°F) where many lubricants solidify. **MP-50** is water resistant, withstands extreme weather elements, and helps prevent corrosion on parts exposed to water, steam, most acids, and alkalis.

APPLICATIONS

MP-50 is a product with a multitude of uses. It helps speed up production, reduce downtime and keeps maintenance at the lowest level. It protects production tools and taps. **MP-50** prevents seizure and freezing of moving pipe joints, bolts, and studs; it reduces torque on makeup and dismantling of any threaded or screwed fitting. It is used extensively for lubricating bushings and guideposts on die sets. Use **MP-50** on assembly and disassembly of press and shrink fits of pins, shafts, bushings, sprockets, gears, bearings; it eliminates galling and distortion.

Highly-loaded gears, open spur gears, marine transmission gears, or any gears prone to scoring using normal lubricants should be predressed with **MP-50** before initial service. When used in wire drawing operations, a smooth surface and reduces die wear will result. Because of its high EP qualities, **MP-50** protects cams and prevents metal-to-metal contact at low and high speeds.

Use **MP-50** on articulated railcar connections, on chucks and collets, taper sleeves, keys and keyways, universal joints, rod end bearings, power screws, and guideways. In machine shops it may also be used as an EP additive for cutting oils by combining two parts of cutting oil or petroleum with one part **MP-50**.

CHARACTERISTICS

- Lead Free
- Prevents Corrosion
- Lowers Friction
- Contains High Percentage MoS₂
- Water Resistant
- Non-Melting
- Prevents Stick-Slip

OPERATING RANGE

-25°C to 400°C (-13°F to 750°F)

PRODUCT SPECIFICATIONS

Penetration (ASTM D-217)	250 - 280
Viscosity (Brookfield HAT #7 Spindle @ 25°C)	
10 rpm	576.000 centipoise
100 rpm	80.000 centipoise
Density (kg/liter), Typical	1.42
Shell 4-Ball Wear (ASTM D-2266)	
Average Wear Scar Diameter	0.65
Shell 4-Ball EP (ASTM D-2596)	
Load Wear Index	50
Weld Point	250 kg

PACKAGING

Inventory Code	Container Size	Container
28002	225 ml	Brush-Top
28004	1-Liter	Jar
28005	5-Liter	Pail
28010	10 liter	Pail
28050	500 g	Cartidge

LIMITED WARRANTY

Jet-Lube of Canada makes the Limited Express Warranty that at the date of delivery, this product shall be free from defects in Jet-Lube of Canada Ltd. 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 of Canada Ltd.

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 of Canada Ltd. shall not be liable for incidental or consequential damages.

