

MP-50 TM MOLY PASTE

DESCRIPTION

MP-50[™] Moly Paste is a non-melting, lubricating compound containing a high percentage of low-friction molybdenum disulfide (MoS₂). Being a thick paste, it can be applied by brush or spatula. MP-50™ has a performance range of -300°F (-185°C) to750°F (400°C) for anti-seize applications. When employed in mechanical components not exposed to air, good lubrication results can be anticipated up to 2000°F (1090°C). Molybdenum Disulfide is nearly inert in operating conditions up to 600°F (315°C). If the grease vehicle should be squeezed out, disrupting normal lubrication, the moly disulfide remains to protect working surfaces. It assists in boundary lubrication by filling microscopic voids. MP-50™ "plates" metal surfaces, reducing high points and increasing 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™ 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 0°F (-18°C). MP-50[™] is water resistant, withstands extreme weather elements, and helps prevent corrosion on parts exposed to water, steam, most acids and alkalis.

Lead Free
Prevents Corrosion
Lowers Friction
Water Resistant
Non-melting
Prevents Stick-Slip

· Contains high percentage MoS₂

APPLICATIONS

MP-50™ is an extreme service lubricant designed to handle the toughest applications. The low pour point oil provides reduced torque when compared to low tech asphaltic or wax based lubricants in the extremes of winter. The non-melting, thick consistency also allows MP-50™ to remain in place under extreme loads and elevated temperatures. Although expensive when compared to standard mandrel lubricants, MP-50™ provides a real cost savings in extended mandrel life, better sur- faces with fewer imperfections, tears, etc., thus reduced downtime and greater efficiency. MP-50™ has been selected as the premier valve stem lubricant by many of the OEM valve manufactures. In high pressure, multiple actuation tests MP-50™ shows almost no loss in performance where other products result in higher and higher torques with each actuation. MP-50™ is the only product specified in NAVSEA TMS S 9958-AA-MMA-100 Volume 10 Book 1 on Marotta control valves. Additionally, **MP-50™** is ideal for subsea riser, BOP, flange equipment and structural bolts, onshore and offshore. Based upon the extremes of the applications noted above, MP-50™ is ideal for cam lubrication, assembly and subsequent dis-assembly of press and shrink fit pins, shafts, splines, bushings, sprockets, gears, bearings. Highly loaded gears, open spur gears, marine transmission gears or any applications prone to scoring using normal lubricants should be prepressed with MP-50™ before initial service.

PRODUCT CHARACTERISTICS

Thickener Organo Clay & MoS₂

Fluid Type Petroleum

Color/Appearance Blue to Black Paste

Dropping Point (ASTM D-566) None Specific Gravity 1.40 Density (lbs/gal) 11.7 Oil Separation, Wt % Loss @ 212°F<1.0

Flash Point (ASTM D-92) > 430°F (221°C)

Nut-Factor* 0.11

High Chrome Alloys @ 60,000 PSI Contact Stress

NLGI Grade 2½

Approx. Safe DN Limit Suitable only for plain

bearings

250

Penetration @ 77°F, 250 - 270

(ASTM D-217) mm x 101

Copper Strip Corrosion 1A

(ASTM D-4048)

4-Ball (ASTM D-2596)

Weld Point, kfg minimum
Friction Coefficient 0.06

Service Rating -300°F (-185°C) to 750°F (400°C)

* (T = K × D × F) where T = torque, K = nut factor,

sometimes incorrectly called the friction factor, D = bolt diameter, and F = bolt tension generated during tightening. This expression is often called the short-form equation.

For package types and part numbers

www.ietlube.com/resources/product-index/

Limited Warranty

www.jetlube.com/assets/documents/Jet-Lube Warranty.pdf