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PRODUCT DATA SHEET

Moly Hammer Oils ISO 150, 220, 320, 460

DESCRIPTION

Hi-Tec Moly Hammer Oils are anti-wear, extreme pressure, emulsifiable oils that are specially formulated to meet the lubrication requirements of high speed, heavily loaded rock drills, drifters, hammers and other pneumatically operated equipment.

Hi-Tec Moly Hammer Oils are blended from the finest solvent refined paraffinic base stocks which allow them to operate over a wide temperature range because of the oils' excellent thermal stability and resistance to oxidation.

Blended into these paraffin base stocks are proven non-corrosive additive packages which provide the **Hi-Tec Moly Hammer Oils** with exceptional extreme pressure qualities as well as maximizing the rust and oxidation inhibiting characteristics of the oils.

Hi-Tec Moly Hammer Oils also contain emulsifiers which help assure the formation of a stable emulsion. This allows for lubrication in the presence of water, or in the presence of wall stabilizing foam/water mix which may be introduced into the air stream. The foam/water mix can also be used to control dust which could contain silicon or asbestos.

CHARACTERISTICS

The moving parts of a rock drill are designed to perform under hydrodynamic lubrication conditions. That is, a full fluid film must separate the metal surfaces of the moving parts during operation.

However this film can be destroyed during periods of cold start-up or severe shock loads. Unless a boundary lubricant is present in the lubricating oil when this full fluid film is destroyed, undue wear or, in severe cases, welding of components can take place.

To prevent this wear, molybdenum disulfide is blended into the **Hi-Tec Moly Hammer Oils**. The molybdenum disulfide provides the boundary lubrication needed by plating itself to the metal surfaces of the rifle bars, drill pistons and cylinders of the rock drills. This molybdenum disulphide film will withstand pressures up to 500,000 pounds per square inch, thus reducing wear and extending equipment life.

The molybdenum disulfide also provides a smooth finished surface on all moving parts of the rock drill. This minimizes the action of cold welding, which can occur during cold start-up after the rock drill has been standing idle.



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Dieseling Inhibited: Under conditions of light load and when temperatures are high (withdrawal of percussion tools etc) auto-compression ignition may occur. This infrequent dieseling is minimized by the inclusion of a combustion suppressant.

A wide range of available viscosities of **Hi-Tec Moly Hammer Oil** allows the selection of the optimum lubricant. The correct viscosity ensures that the lubricant feed from line oilers and other types metering devices provide effective trouble free lubrication to every lubricated surface of the equipment. Incorrect viscosity leads to inadequate lubricant coverage with resultant high wear rates, decreased equipment service life or even costly premature equipment failures.

Hi-Tec Moly Hammer Oil is classified as non hazardous to people and the environment and has negligible odour. These are very important characteristics especially when exhausting oil mist into confined areas and in underground mining.

The Molybdenum Disulphide in **Hi-Tec Moly Hammer Oil** is in a stable dispersion form. The majority of the particles are less than 1 micron in size. Please mix **Hi-Tec Moly Hammer Oil** well before use to ensure optimum protective performance from the Molybdenum Disulphide dispersion.

PROPERTIES

TYPICAL TESTS		ASTM METHOD	150	220	320	460
Product Code			2814M	2821M	2817M	2818M
Density at 15°C	Kg/Lt	D1298	0.899	0.903	0.904	0.909
Viscosity at 40°C	cSt	D445	150	220	320	460
Flash Point, COC	°C	D92	250	270	280	285
Pour Point	°C	D97	-12	-9	-9	-9
Rust Prevention Characteristics	-	D665	Pass	Pass	Pass	Pass
Copper Strip Corrosion	-	D130	1a	1a	1a	1a

"The facts stated and the recommendations made herein are believed to be accurate. No guarantee of their accuracy is made however, and unless otherwise expressly provided in a written contract, the products are sold without conditions or warranties, expressed or implied. Purchasers should determine the suitability of such products for their particular purposes".

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