

MAK TRIPONOL TDL

Description

MAK TRIPONOL TDL is a low viscosity forming lubricant containing high levels of lubricity and EP additives.

Metal-forming involves the bending, stretching, ironing and shaping of metal while maintaining surface quality. The workpiece is forced through a die which will provide the shape for the finished part. Also there is heat generation

Forming fluids are required to reduce friction and minimize contact between die and workpiece. This action is critically important to quality of parts and the service life of tools and dies.

MAK Triponol TDL is designed to provide proper lubrication between the metal and the die even at elevated temperatures in high speed forming application of steel, stainless steel and other high nickel alloys.

Application

MAK Triponol TDL is specially recommended for stainless steel cold and hot forging work on fasteners like bolt nuts, bushes, screws etc.

MAK TRIPONOL TDL is also suitable for use in blanking and stamping of stainless steel.

MAK Triponol TDL cannot be used with yellow metals

Benefits

- **Excellent EP & Lubricity properties:** Provides better surface finish and die life
- **Good compatibility with stainless steel :** Low staining
- Reduction in Smoke Levels in case of Hot Forging.

Performance Level

- Proprietary grade

Technical Specifications

Characteristics	Test methods	MAK TRIPONOL TDL
Appearance	Visual	Light Yellow to Amber
Density at 29.5 °C	ASTM D 1298	1.01
Flash point by COC	ASTM D 92	230 °C
Pour Point	ASTM D 97	-6 °C
Kinematic Viscosity at 40°C	ASTM D 445	65 cSt
Copper corrosion, 100° C, 3 hrs	ASTM D 130	4a (Black)
Weld Load	ASTM D 2783	800 Kg pass

All the mentioned values are typical which may vary from batch to batch.

Storage and Handling

- Indoor Storage is always preferable
- Barrels should be kept horizontally with bung position at 3'o clock 9 'o clock position
- Barrels should be kept away from dusty or heated areas as much as possible

Health & Safety

This grade is not hazardous under normal conditions of use. For further guidance appropriate Material Safety Data Sheet may be referred

Advice

For any further advice on applications or otherwise please contact the nearest Bharat Petroleum Territory Office or Technical Services Department at the address given below.

Bharat Petroleum Corporation Ltd.

Product and Application Development Dept.
BPCL 'A' Installation, Sewree Fort Road, Sewree (East)
Mumbai -400015
E-mail: MAKcustomercare2@bharatpetroleum.in
Tel No.: 022-24176351