



OPEN GEAR BOX OILS

MOTOROL TOP GEAR HD 110/120/140/170/190



Introduction:

MOTOROL Top Gear HD type oil are heavy viscous **black petroleum product** possessing excellent adhesiveness, good film strength and resistance to water washing. These oils are blended with special tackiness agents useful in withstanding high pressure encounter in heavy loaded open gears. Open gears are found in many types of heavy machinery in steel mills, sugar mills etc. and are commonly hand lubricated at frequent intervals. To provide optimum lubrication and to avoid metal to metal contact which results in wear there is a need of a lubricant which provides a tacky oil film that will neither be squeezed aside by the machine action of teeth nor thrown off by centrifugal force.

Applications:

- MOTOROL Top Gear HD grades are recommended for open gears working under heavy and shock load at varying temperature conditions. Heavy grades require heating before application and can also applied with brush, swab, paddle or spray.

Advantages:

- Good rust preventive properties
- Excellent film strength
- Resistance against water washing
- Protection against dirt and water when applied on cables and wire ropes
- Special tackiness agent giving the ability to stay in place and provide long lasting protection to gears

Performance Standard:

Meets IS 9554-1980

Typical Specifications:

Sr. No.	Characteristics	ASTM METHOD	110	120	140	170	190
1	Kinematic Viscosity, at 100 °C, cSt	ASTM D - 445	120	272	350	450	1100
2	Flash Point, (COC) °C, Min	ASTM D - 92	235	235	235	235	235

Environment, Health & Safety:

Every care has been taken to ensure the accuracy of the information in this PDS. This however may be affected by subsequent improvement in product (R&D). MSDS is available for all MOTOROL products on request.

MOTOROL products are unlikely to present any health and safety hazard with proper use for the correct application and maintain proper personal hygiene. Do not spill oils on the shop floor, discharge into drains, ground or water sources.