

MAK HYDROL

Gear Oil

Description

This oil has excellent anti-wear properties making it suitable for application requiring heavier loads and high speed. In addition to this, it has good oxidation stability and anti-rust properties.

Application

Used in gear Boxes requiring anti-wear properties such as machine tools and mildly loaded gear Boxes.

Benefits

- Exhibits good oxidation, anti-rust, anti-wear and anti-foam properties
- Have excellent compatibility with the seals

Performance Level

- IS 3098:1983 [Reaffirmed 2004]
- IS 10522:1983 [Reaffirmed 2004]
- DIN 51 524 Part 1 HL Type
- IPSS:1-09-022
- Vickers V-104C Vane pump test.

Our grades meet above specification for the respective Viscosity Grades.

Technical Specifications

Characteristics	ASTM	MAK HYDROL		
		220	320	460
Appearance	--	Clear fluid	Clear fluid	Clear fluid
Density at 15° C	D1298	0.886	0.895	0.904
K.V at 40° C, cSt	D445	220.1	320.4	460.6
Viscosity Index	D2270	94	92	92
Pour Point, °C	D97	-6	-6	-6
Flash Point, (COC), °C	D92	262	268	272
Copper Strip Corrosion Test at 100°C for 3 hrs.	D130	1	1	1
Foaming Characteristics/Stability	D892			
a) Sequence I		Nil	Nil	Nil
b) Sequence II		Nil	Nil	Nil
c) Sequence III		Nil	Nil	Nil

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 bunk position at 3 O'clock 9 O'clock position
- Barrels should be kept away from dusty or heated areas.
- During handling any contact with dust must be avoided.

Health and Safety

These oils are not hazardous under normal conditions of use. For further guidance appropriate Material Safety Data Sheet (MSDS) 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.

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