

MAK SPIROL EP

Description

MAK SPIROL EP is superior quality multi purpose extreme pressure gear oil. This oil is designed for use in gear boxes requiring Extreme Pressure properties particularly for hypoid and bevel gears. It provides extreme pressure, anti-rust and corrosion characteristics. This oil also has high oxidation stability and film strength. This oil facilitates easy gear shifting especially at low ambient temperatures.

Application

It is recommended for passenger car, bus and highway truck hypoid, spiral bevel and worm gear axles and also manual transmission of Automobiles for which this type of extreme pressure gear lubricant is required. It can also be used in rear axles wherever OEMs recommend GL-4 Type of oils.

Benefits

- Excellent extreme pressure properties
- Multi grade gear oils facilitate easy gear shifting especially at low ambient temperatures
- Provide protection against Rust & Corrosion
- Long service life

Performance Level

- API GL-4
- IS 1118:1992 (EP Type GL-4)
- MIL-L-2105

Technical Specifications

Characteristics	ASTM TEST METHOD	MAK SPIROL EP 80W	MAK SPIROL EP 90	MAK SPIROL EP 140	MAK SPIROL EP 80W-90
Appearance	-	Clear & bright	Clear & bright	Clear & bright	Clear & bright
Colour, Visual Observation	-	Dark Brown	Dark Brown	Dark Brown	Dark Brown
Density @15°C, gm/ml	D-1298	0.8862	0.8992	0.8999	0.8988
K.V at 100° C, cSt	D-445	9.3	16.6	28.1	14.0
Copper Corrosion @ 100° C for 3 hrs	D-130	1b	1b	1b	1b
Flash Point, (COC), °C	D-92	200	204	218	208
Viscosity Index	D-2270	100	96	95	96
Pour Point, °C	D-97	-27	-9	-6	-24
Foaming Tendency	D-892				
a) Sequence I		Nil/Nil	Nil/Nil	Nil/Nil	Nil/Nil
b) Sequence II		10/Nil	10/Nil	10/Nil	10/Nil
c) Sequence III		Nil/Nil	Nil/Nil	Nil/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 & Safety

This grade is not hazardous under normal conditions of use. For further guidance 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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