

# **MAK SPIROL LL**

## **Description**

MAK SPIROL LL is long life multi grade gear developed for lubrication of rear & front axles of commercial vehicles. It has excellent extreme properties required for protection under severe loading, speed & torque conditions. It is based on thermally stable additive technology that provides better oxidation stability & longer drain period.

## **Application**

It is recommended for use in rear & front axles Manual Transmissions of Heavy Commercial Vehicles / Off-highway equipments where OEMs have recommended GL-5 type of oils.

## **Benefits**

- Extended drain interval use in commercial vehicle manual transmissions
- It has excellent low temperature properties
- Provides excellent protection to gear system

## **Performance Level**

- API GL-5

## Technical Specifications

Characteristics	ASTM TEST METHOD	MAK SPIROL LL 85W140
Appearance	-	Clear & bright
Colour, Visual Observation	-	Dark Brown
Density @15°C, gm/ml	D-1298	0.8998
K.V at 100° C, cSt	D-445	27.1
Copper Corrosion @ 100° C for 3 hrs	D-130	1b
Flash Point, (COC), °C	D-92	232
Viscosity Index	D-2270	115
Pour Point, °C	D-97	-27
Foaming Tendency a) Sequence I b) Sequence II c) Sequence III	D-892	Nil/Nil 10/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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