

# MAK LL GREASE 3

## Description

MAK LL Grease 3 is a high performance long life lithium based complex grease, fortified with unique additive combination which provides longer re-lubrication intervals for wheel bearing applications

Formulated with high quality base oil, this grease can take on high temperatures and severe loads that the automotive wheel bearing face in tough Indian road conditions

## Application

- Recommended for Lubrication of wheel bearings of all types of vehicles including heavy trucks, trailers etc
- Also suggested for industrial applications operating under severe conditions of load and temperature

## Benefits

- **High Drop point** - With a higher drop point grease is well suited to lubricate components efficiently under high temperature conditions also
- **Excellent oxidation and thermal stability** - It is this which provides extended life to the grease which encounters high temperatures in wheel bearings of vehicles.
- **Good adhesion to surface** - Which provides long lasting lubricating film on the bearing protecting it from any damage
- **Greater resistance to rust and water** -Which protects the components and enhances their life
- **Possesses good load bearing ability** - Making grease suitable for hub greasing of heavy trucks, trailers etc.
- **Provides enhanced bearing life** - Hence a longer greasing interval in comparison to other conventional greases
- 50000 km grease changing interval can be achieved under ideal conditions

## Performance Level

- Proprietary

## Technical Specifications

| Characteristics  | Test Method | MAK LL 3 GREASE                                    |
|--|-------------|--|
| Colour and Appearance  | Visual      | Florescent Green in Colour; Smooth and Homogeneous |
| Type of Thickener  | --          | Lithium complex based                              |
| Drop Point, °C   | ASTM D 2265 | 255  |
| Thermal Stability, % wt. loss                                    | ASTM D 6184 | 2.1  |
| Emcor Rust Test  | ASTM D 6138 | 0,0  |
| Wheel Bearing test<br>Leakage by mass, gms<br>Other Observations | ASTM D 1263 | 1.1<br>No deposits                                 |
| Copper Corrosion at 100°C for 24 hrs.                            | ASTM D 4048 | Negative   |
| Four-Ball Weld Load, Kg  | ASTM D 2509 | 250  |
| Life Performance of Wheel Bearing Hrs, at 120°C                  | ASTM D-3527 | >100   |

All the mentioned values are typical and may vary from batch to batch

## Storage and Handling

- Indoor Storage is always preferable
- Barrels should be kept vertically and should be kept away from dusty or heated areas.
- Lid should not be left open and during handling any contact with dust must be avoided
- Containers used for grease transport should be clean and exclusive

## 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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