

## Product Data Sheet

### Mobilith SHC 007 Synthetic Semi-fluid Grease

#### Product Description

Mobilith SHC 007 is a high performance, long-life synthetic semi-fluid grease formulated from a lithium complex thickener and a high viscosity, ISO 460, polyalphaolefin ( PAO ) base oil. It possesses excellent extreme pressure performance and good corrosion inhibition which are essential in filled for life gearbox applications.

The use of high thermal stability synthetic hydrocarbon base stock contributes to the exceptionally long life of this product, which far exceeds the service life of conventional mineral oil based lubricants.

#### Benefits

Mobilith SHC 007 offers the following benefits:

- Reduced gear wear due to excellent EP properties.
- Minimises leakage problems and therefore improves shop floor safety.
- Protects gears, bearings and casing against corrosion.
- Outstanding structural stability even in the presence of water.
- Compatible with mineral and synthetic lubricants as well as conventional seal materials.

#### Special Features of Mobilith SHC 007

- Long service life even at high operating temperatures.
- Wide operational temperature range, -50°C to +200°C.
- Excellent wear protection even under high loads and at high temperatures.
- Excellent rust and corrosion resistance.
- Reduced power consumption due to low running torque.
- Reduces maintenance because of fill for life capabilities.

#### Applications

Mobilith SHC 007 is recommended for application in a wide range of medium to slow speed industrial gearboxes particularly those where fill for life service is required. It is especially suitable to applications where high operating temperature and leakage render conventional lubricants unsatisfactory.

Typical applications for Mobilith SHC 007 are conveyor gearboxes, remote gearboxes and crane gearboxes where minimum maintenance is desirable. It can also be used for slush pan lubrication of open gears.

The excellent water resistance and superb rust and corrosion inhibition of Mobilith SHC 007 ensure excellent lubrication even when subjected to contamination.

Mobilith SHC 007 has a recommended operational temperature range of -50°C to +200°C.

Mobilith SHC 007 is compatible with conventional mineral oil and PAO synthetic gear oils.

## Properties

Mobilith SHC 007 is an extremely thermally stable semi-fluid grease manufactured from lithium complex thickener, synthetic hydrocarbon base stock and unique combination of additives which are effective up to a very high operating temperatures.

The semi-fluid nature of Mobilith SHC 007 ensures maximum flow of lubricant to the critical gear and bearing interfaces, whilst minimising leakage past seal materials.

## Health and Safety

Based on available toxicological information, it has been determined that this product poses no significant health risk when used and handled properly.

Details on handling, as well as health and safety information, can be found in the Material Safety Data Bulletin which can be obtained through Mobil Oil Company Ltd., by telephoning 01372 22 2000.

Typical physical characteristics are given in the table. These are intended as a guide to industry and are not necessarily manufacturing or marketing specifications.

## Product Characteristics

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|                                     | <b>Mobilith SHC 007</b> |
|-------------------------------------|-------------------------|
| NLGI Grade                          | 00                      |
| Soap Type                           | Lithium Complex         |
| Structure                           | Smooth, slightly tacky  |
| Colour                              | Red                     |
| Penetration, Worked                 | 415                     |
| Dropping Point, °C                  | 250                     |
| Base Oil Viscosity, cSt at 40°C     | 460                     |
| Base Oil Viscosity, cSt at 100°C    | 46.5                    |
| Timken OK Load, kg                  | 27.2                    |
| 4-Ball Wear, Scar mm                | 0.6                     |
| 4-Ball Weld Load, Kg                | 250                     |
| FZG Gear Test Failure Stages passed | 12+                     |

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*Due to continual product research and development, the information contained herein is subject to change without notice*

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