

Product Data Sheet

Mobilith SHC 1500 Super Premium Synthetic Grease

Product Description

Mobilith SHC 1500 is a super premium grease which combines the unique features of a high viscosity synthetic base fluid with a lithium complex soap thickener. The wax-free synthetic base fluid provides excellent low temperature mobility/pumpability. Its low coefficient of traction compared with mineral oils provides excellent low temperature lubrication plus the potential for energy savings and operating temperature reductions in the load zone of rolling element bearings.

Benefits

Mobilith SHC 1500 offers the following benefits:

- Outstanding protection of slow speed, heavily loaded bearings
- Excellent corrosion protection
- Outstanding structural stability in the presence of water
- Reduced energy consumption (low coefficient of traction)
- Extended relubrication intervals
- Low volatility
- Lead, Chlorine and Nitrite free

Application

Mobilith SHC 1500 is a NLGI 1 grade lithium complex grease with an exceptionally high, ISO VG 1500, synthetic base fluid. It is intended for use in plain and rolling element bearings operating at extremely slow speeds, under heavy loads and high temperatures. The high viscosity synthetic base oil also makes this grease suitable for open gear applications.

The suggested operating temperature range is -20°C to +180°C.

Continuous lubrication (53 g/hr/bearing) with Mobilith SHC 1500 has been very effective in prolonging bearing life in a 30 ton Polysius Roll Press application. It has also provided excellent performance in rotary kiln roller bearings and in slag transfer rail car bearings.

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.

Typical Characteristics

Mobilith SHC 1500

	Test Method	
NLGI Grade	ASTM D217	1
Soap Type		Lithium Complex
Structure	Visual	Smooth, Slightly Tacky
Colour	Visual	Red
Penetration, Worked	ASTM D217	325
Dropping Point, °C	ASTM	250
Viscosity of Oil, cSt at 40°C	D2265	1500
Viscosity of Oil, cSt at 100°C	ASTM D445	100
Timken OK Load, Kg	ASTM D445	24.8
4-Ball Wear, Scar mm	ASTM	0.6
4-Ball Weld, Kg	D2509	250
Emcor Distilled Water Wash Test	ASTM	Mod.
Water Spray, % Loss	D2266	60
Water Washout % m at 79°C	ASTM	2
Oxidation Stability Pressure Drop, kPa	D2596	13.8
	IP 220	
	ASTM	
	D4049	
	ASTM	
	D1264	
	ASTM D942	

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

Mobil Oil Company Limited
Acting as Agent for Mobil Lubricants UK Limited
ExxonMobil House, Ermyn Way
Leatherhead, Surrey, KT22 8UX
Telephone: 01372 22 2000

