

# Product Data Sheet

## Mobilith SHC 100 & 220 Super Premium Quality Synthetic Greases

### Product Description

Mobilith SHC 100 and 220 are super premium quality greases which combine the unique features of a synthetic base fluid with a lithium complex soap thickener. The wax-free nature of the synthetic base fluid, together with its low coefficient of traction compared with mineral oils, provide excellent low-temperature pumpability, very low starting and running torque and can reduce operating temperatures in the load zone of rolling element bearings.

### Benefits

Mobilith SHC greases are proven problem solvers. They have demonstrated superior performance versus competitor products in high temperature steel mill applications and wet environments including waste water treatment plants and timber manufacturing. Laboratory testing at 180°C confirms lower volatility and longer service life than competitor greases.

- Wide range of applications.
- Outstanding high and low temperature performance.
- Excellent resistance to rust, corrosion and oxidation.
- Increased protection against water penetration.
- Reduced wear under heavy loads.
- Reduced energy consumption (low coefficient of traction).
- Extended relubrication intervals.
- Lead, chlorine and nitrite free.

### Application

Mobilith SHC 100 is an anti-wear grease particularly suited for higher speed bearing applications, such as electric motors, where reduced friction, low wear and long service life are required. The recommended operating temperature range of -50°C to 180°C.

Mobilith SHC 220 is a multipurpose, extreme pressure grease recommended for heavy duty, automotive and industrial applications. It is an NLGI 2 Grade grease but has the low temperature pumpability of most NLGI 0 Grade mineral oil greases. The recommended operating temperature range of -40°C to 180°C.

## Health and Safety

Based on available toxicological information, it has been determined that these products pose 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

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		<b>Mobilith SHC 100</b>	<b>Mobilith SHC 220</b>
	<b>Test Method</b>		
NGLI Grade	ASTM D217	2	2
Soap Type	-	Lithium Complex	Lithium Complex
Structure	Visual	Smooth, Slightly Tacky	Smooth, Slightly
Tacky			
Colour	Visual	Red	Red
Penetration at 25°C, worked	ASTM D217	280	280
Dropping Point, °C	ASTM D2265	274	270
Viscosity of base oil, cSt at 40°C	ASTM D445	100	220
Viscosity of base oil, cSt at 100°C	ASTM D445	14.5	23.8
Timken OK Load, kg	ASTM D2509	-	20
4-Ball Wear Scar diam, mm	ASTM D2256	0.5	0.5
4-Ball Weld Load, kg	ASTM D2596	200	250
Emcor water wash test	IP 220 Mod.	0-0	0-0
Water Spray % Loss	ASTM D4049	90	85

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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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