

Mobilith SHC Series

Super Premium Synthetic Greases

The Mobil logo, consisting of the word "Mobil" in a blue, sans-serif font, is positioned in the upper right corner of the page. A large, thick red curved line arches over the top right of the page, partially overlapping the logo.

Product Description

Mobilith SHC Series are super premium greases primarily intended for a wide variety of applications at extremes of temperature. They combine the unique features of a synthetic base fluid with those of a lithium complex thickener. The wax-free nature of the synthetic base oil and the low coefficient of traction (compared with mineral oils), provide excellent low-temperature pumpability and very low starting and running torque. They offer the potential for energy savings and can reduce operating temperatures in the load zone of rolling element bearings. The lithium complex thickener contributes excellent adhesion, structural stability and resistance to water. The greases have a high-level of chemical stability and provide excellent protection against wear, rust and corrosion at high and low temperatures. Mobilith SHC Series do not contain lead, chlorine or nitrites.

Benefits/Advantages

- Reduced downtime and maintenance costs because of reduced wear, rust and corrosion.
- Outstanding high-temperature and low-temperature performance.
- Extended service life with longer intervals between relubrication.
- Reduced energy consumption due to low traction coefficient.
- Ability to perform well in the presence of water.

Application

Mobilith SHC 100 is an antiwear grease primarily recommended for higher speed applications such as electric motors, where reduced friction, low wear and long service life are required. It is based on an ISO VG 100 synthetic fluid and is an NLGI 2 Grade grease. Its operating temperature range is -50°C to 180°C.

Mobilith SHC 220 is a multipurpose, extreme pressure grease recommended for heavy duty automotive and industrial applications. It uses an ISO VG 220 synthetic fluid and although it is a NLGI 2 Grade product, it has the low-temperature pumpability of most NLGI 0 Grade mineral oil based greases. It has a recommended operating temperature range of -40°C to 180°C.

Mobilith SHC 460 is an extreme pressure grease recommended for tough industrial applications. It provides outstanding bearing protection under heavy loads at low-to-moderate speeds and in applications where water resistance is a critical factor. It has demonstrated outstanding performance in steel mills, paper mills and marine applications. The recommended operating temperature range is -40°C to 180°C.



Typical Properties

Mobilith SHC	100	220	460
NLGI Grade	2	2	1.5
Color	Red	Red	Red
Thickener Type	Lithium Complex		
Structure	Smooth, Slightly Tacky		
Penetration at 25°C, Worked	280	280	305
Dropping Point, °C	274	270	288
Viscosity of Base Oil			
cSt at 40°C	100	220	460
cSt At 100°C	14.5	23.8	47
4-Ball Wear, Scar diam,mm	0.5	0.5	0.5
4-Ball Weld Load, kg	200	250	250
Timken OK Load, kg	-	20	25
Washout Test	0	0	0
Water Washout Loss at 79°C, wt	6	8	3

Health and Safety

Based on available toxicological information, these products produce no adverse effects on health when properly handled and used. No special precautions are suggested beyond attention to good personal hygiene, including laundering oil-soaked clothing and washing skin contact areas with soap and water. Additional health and safety information on these products, including Material Safety Data Bulletins, is available on request from your local ExxonMobil company.

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