Mobil

Mobilith SHC™ Series

Mobil Grease , Mexico

Grease

Product Description

Mobilith SHC™ Series greases are superior performance products designed for a wide variety of applications at extremes of temperature. They combine the unique features of synthetic base fluids with those of a high quality lithium complex thickener. The wax-free nature of synthetic fluids and the low coefficient of traction (compared with mineral oils), provide excellent low temperature pumpability and very low starting and running torque. These products offer the potential for energy savings and can reduce operating temperatures in the load zone of spherical roller and ball bearings. The lithium complex thickener contributes excellent adhesion, structural stability and resistance to water. The greases have a high level of chemical stability and are formulated with special additive combinations to provide excellent protection against wear, rust and corrosion, and providing operating viscosity at high and low temperatures. Mobilith SHC Series greases are available in seven grades, varying in base oil viscosity from ISO VG 100 to 1500 and in NLGI grade from 2 to 00.

Mobilith SHC Series greases have become the products of choice for many users, in many industries worldwide. Their reputation is based on their exceptional quality, reliability, versatility and the performance benefits they deliver.

Features and Benefits

The Mobil SHC brand of oils and greases are recognized and appreciated around the world for their innovation and outstanding performance. The Mobilith SHC series symbolizes ExxonMobil's continued commitment to using advanced technology to provide outstanding products. A key factor in the development of the Mobilith SHC Series were the close contacts between our scientists and application specialists with key Original Equipment Manufacturers (OEMs) to ensure that our product offerings would provide exceptional performance in the continually evolving industrial equipment designs.

Our work with equipment builders has helped confirm the results from our own laboratory tests showing the exceptional performance of the Mobilith SHC Series lubricants. These benefits include longer grease life, enhanced bearing protection and bearing life, wide temperature range of application, and the potential for improved mechanical efficiency and energy savings.

To combat high thermal exposure of the oil our product formulation scientists chose proprietary synthetic base oils for Mobilith SHC Series oils because of their exceptional thermal/oxidative resistance potential. Our scientists developed a state-of-the-art lithium complex thickener technology and used specific additives to enhance the performance of each grade of the Mobilith SHC Series product family. The Mobilith SHC Series greases offer the following features and benefits:

Features	Advantages and Potential Benefits
Outstanding high temperature and low temperature performance	Wide application temperature ranges, with excellent protection at high temperatures and low torque, easy start-up at low temperatures
Excellent protection against wear, rust and corrosion	Reduced downtime and maintenance costs because of reduced wear, rust and corrosion
Excellent thermal stability and oxidation resistance	Extended service life with longer intervals between relubrication and improved bearing life
Low traction coefficient	Potential to improve mechanical life and reduced energy consumption
Includes both high and low viscosity grades	Options for outstanding protection of slow speed, heavily loaded bearings, and options for good low temperature performance
Outstanding structural stability in the presence of water	Retains excellent grease performance in hostile aqueous environments
Low volatility	Helps resists viscosity increase at high temperatures to maximize relubrication intervals and bearing life

Applications

Application Considerations: While Mobilith SHC Series greases are compatible with most mineral oil based products, admixture may detract from their performance. Consequently it is recommended that before changing a system to one of the Mobilith SHC Series, it should be thoroughly cleaned out to achieve the maximum performance benefits. While the Mobilith SHC Series greases share many performance benefits, their applications are best described in terms of each product grade:

• Mobilith SHC 100 is an antiwear and extreme pressure grease primarily recommended for higher speed applications such as electric motors, where reduced friction, low wear and long service life are required. It is an NLGI 2 Grade / ISO VG 100 grease with a synthetic base fluid. Its operating temperature range is -40º C* to 150º C.

• Mobilith SHC 220 is a multi-purpose, NLGI 2 extreme pressure grease recommended for heavy-duty automotive and industrial applications. It uses an ISO VG 220 synthetic base fluid. Mobilith SHC 220 has a recommended operating temperature range of -40º C* to 150º C.

• Mobilith SHC 221 is a multi-purpose, extreme pressure grease recommended for heavy-duty automotive and industrial applications, particularly where centralized grease systems are utilized. It uses an ISO VG 220 synthetic base fluid. Mobilith SHC 221 has a recommended operating temperature range of -40º C to 150º C.

• Mobilith SHC 460 is an NLGI 1.5 Grade grease with ISO VG 460 synthetic base fluid and is an extreme pressure grease recommended for tough industrial and marine applications. It provides outstanding bearing protection under heavy loads at low-to-moderate speeds and in applications where water resistance is a critical factor. Mobilith SHC 460 has demonstrated outstanding performance in steel mills, paper mills and marine applications. The recommended operating temperature range is -30º C* to 150ºC.

• Mobilith SHC 1500 is an NLGI 1.5 Grade / ISO VG 1500 grease with a 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. Mobilith SHC 1500 has a recommended operating temperature range of -30 ºC* to 150 ºC with appropriate relubrication intervals. Continuous lubrication with Mobilith SHC 1500 has been very effective in prolonging bearing life in a severe roll press application. Mobilith SHC 1500 has also provided excellent performance in rotary kiln roller bearings and in slag transfer rail car bearings.

• Mobilith SHC 007 is an NLGI 00 Grade / ISO VG 460 grease with a synthetic base fluid; it has a recommended operating temperature range of -50º C to 150 º C with appropriate relubrication intervals. Its primary uses are in grease filled industrial gear cases subject to high temperatures, where conventional semi fluid greases will not provide acceptable lubricant life and in non-driven heavy-duty truck trailer wheel hubs.

*Low temperature claims based on ASTM D 1478 results vs. maximum limits of 10,000 / 1000 gcm @ startup and 1 hour respectively.

Specifications and Approvals

This product has the following approvals:	007	100	1500	220	221	460
AAR-M942		X			X	
Siemens Gamesa Renewable Energy offshore direct drive wind turbine main bearing	X					

This product is recommended for use in applications requiring:	007	100	1500	220	221	460
CEN EN 12081:2017		X				

This product meets or exceeds the requirements of:	007	100	1500	220	221	460
DIN 51825:2004-06 - KP HC 1-2 N -30			X			
DIN 51825:2004-06 - KP HC 1-2 N -40						X
DIN 51825:2004-06 - KP HC 2 N -30				X		
DIN 51825:2004-06 - KP HC 2 N -40		X				

This product meets or exceeds the requirements of:	007	100	1500	220	221	460
DIN 51826:2005-01 - GP HC 00 K -30	X					

Properties and Specifications

Property	007	100	1500	220	221	460
Grade	NLGI 00	NLGI 2	NLGI 1.5	NLGI 2	NLGI 1	NLGI 1.5
Thickener Type	Lithium Complex Greases	Lithium Complex Greases	Lithium Complex Greases	Lithium Complex Greases	Lithium Complex Greases	Lithium Complex Greases
Color, Visual	Red	Red	Red	Red	Light Tan	Red
Copper Strip Corrosion, 24 h, 100 C, Rating, ASTM D4048	1B	1B	1B	1B		1B
Corrosion Preventive Properties, Rating, ASTM D1743			Pass	Pass	Pass	Pass
Dropping Point, °C, ASTM D2265		265	265	265	265	265
Four-Ball Extreme Pressure Test, Weld Point, kgf, ASTM D2596	250	250	250	250	250	250
Four-Ball Wear Test, Scar Diameter, mm, ASTM D2266	0.5	0.5	0.5	0.5	0.5	0.5
Oil Separation, 0.25 psi, 24 h @ 25 C, mass%, ASTM D1742			<1	2		3
Penetration, 60X, 0.1 mm, ASTM D217	415	280	305	280	325	305
SKF Emcor Rust Test, 10% Synthetic Sea Water, ASTM D6138		0 , 1	0 , 1	0 , 1		0 , 1
SKF Emcor Rust Test, Acidic Water, ASTM D6138		0 , 1	0 , 1	0 , 1		0 , 1
SKF Emcor Rust Test, Distilled Water, ASTM D6138	0 , 0	0 , 0	0 , 0	0 , 0	0 , 0	0 , 0
Viscosity @ 100 C, Base Oil, mm2/s, ASTM D445	55.6	16.3	149	30.3	30.3	55.6
Viscosity @ 40 C, Base Oil, mm2/s, ASTM D445	460	100	1500	220	220	460
Viscosity Index, ASTM D2270	188	175	212	179	179	188
Water Washout, Loss @ 79 C, wt%, ASTM D1264		6	6	1.5		7

Health and Safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ http://www.msds.exxonmobil.com/psims/psims.aspx

All trademarks used herein are trademarks or registered trademarks of Exxon Mobil Corporation or one of its subsidiaries unless indicated otherwise.

10-2026

ExxonMobil Mexico, S.A. de C.V.
Poniente 146 No. 760 Col. Industrial Vallejo
C.P. 02300 Mexico, Ciudad de Mexico

(01 52) 55 5-333-9602 (01 52) 1-800-90-739-00

Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.

ExxonMobil

Exxon Mobil Esso

© Copyright 2003-2026 Exxon Mobil Corporation. All Rights Reserved