

Product Data Sheet

Mobilgear SHC 46M High Technology, Ultra High Viscosity, Synthetic Open Gear Oil

Product Description

Mobilgear SHC 46M is a speciality ultra high viscosity lubricant primarily intended for use in heavily loaded, low and medium speed gears where boundary lubrication conditions prevail.

Mobilgear SHC 46M is formulated from wax-free synthetic base stocks which have exceptional oxidation and thermal properties and remarkable excellent low-temperature fluidity. The combination of a naturally high viscosity index and a unique additive system enables the product to provide outstanding performance under severe high and low temperature operating conditions. The base stocks have inherently low traction properties which result in low fluid friction in the load zone of non-conforming surfaces such as gears. Reduced fluid friction produces lower oil operating temperatures and improved gear efficiency.

Mobilgear SHC 46M exceeds Falk minimum viscosity requirements for intermittent lubrication of gears.

Mobilgear SHC 46M does not contain any solvent.

Benefits

Mobilgear SHC 46M offers the following benefits:

- Extended gear life resulting from outstanding load-carrying, anti-wear and tackiness properties derived from proprietary thick film lubrication
- Reduction in pump replacement costs due to their pumpability at ambient temperature
- Improved safety gear efficiency and lower operating temperatures arising from low traction properties
- Reduced lubricant consumption and disposal costs
- Absence of hard-packed deposits and the elimination of the need for gear cleaning with subsequent reduction in downtime and maintenance costs
- Improved safety through absence of solvent
- Easier distribution/metering

Application

Mobilgear SHC 46M is primarily recommended for open gears where asphaltic, diluent-containing lubricants have historically been used. Mobilgear SHC 46M is also recommended for the replacement of semi-fluid greases.

Mobilgear SHC 46M can be applied with conventional single line or dual line spray systems without costly circulation system modifications. It is pumpable at temperatures as low as +6°C but, at lower temperatures, the product may have to be heated to achieve the proper spray distribution pattern.

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

Mobilgear SHC 46M

	Test Method	
ISO VG	-	46000
Viscosity, cSt at 40°C	ASTM D445	46000
Viscosity, cSt at 100°C	ASTM D445	1250
Viscosity Index	ASTM D2270	210
Specific Gravity	ASTM D1298	0.924
Flash Point, °C	ASTM D92	228
Pour Point, °C	ASTM D97	+6
Rust Protection, Distilled Water	ASTM D665	Pass
Rust Protection, Synthetic Sea Water	ASTM D665	Pass
Copper Corrosion	ASTM D130	1A/1B
Timken OK Load, kg	ASTM D2509	26.7
FZG Gear Test, Fail Stage	DIN 51354	12+
4-Ball Wear, Scar mm	ASTM D2266	0.975
4-Ball Weld Load, kg	ASTM D2596	315
Colour	ASTM D1500	1.5

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

