

Product Data Sheet

Mobilgear SHC XMP Series High Performance Synthetic Industrial Gear Lubricants

Product Description

Mobilgear SHC XMP Series oils are high performance premium quality, fully synthetic, gear lubricants, designed to provide optimum component and lubricant life even under extremes of operating conditions.

Mobil's extensive research into base oil and additives has resulted in a range of lubricants capable of enabling designers and equipment specifiers to obtain the maximum performance for current and envisaged gear technology.

These lubricants contain an advanced and carefully balanced additive system which is designed to provide excellent protection against conventional wear modes such as scuffing but also an improved level of protection against fatigue related failure such as micropitting.

In addition, the Mobilgear SHC XMP Series oils provide exceptional oxidation resistance and thermal properties, thus are suitable for the most arduous of operating conditions. The naturally high viscosity index and low traction coefficient combine to provide an energy efficient lubricant capable of returning significant reductions in power consumption in many gear drives when compared to mineral oils.

Benefits

Mobilgear SHC XMP Series products offer the following benefits:

- Extended component life (both gears and associated bearings)
- Extended lubricant life and drain intervals with consequent reduced maintenance costs
- Reduced energy consumption
- Reduced operating temperatures
- Ability to operate under extremes of temperature
- Easy changeover from mineral oils, no special procedures required

Applications

Mobilgear SHC XMP Series oils are recommended for all types of enclosed industrial gear drives including steel on steel spur, helical and bevel gears plus worm gear applications that may employ steel on bronze metallurgy. They are suitable for a wide range of industrial use and are particularly recommended for any applications which may be subject to the following operating conditions:

- extremes of temperature
- industries and applications where severe water contamination gives a corrosion risk
- heavily loaded gearboxes with surface hardened tooth metallurgy at risk of micropitting
- e.g. wind turbines or plastic extruder equipment
- environments where control of oil cleanliness through fine filtration is of importance

Selection of lubricant viscosity is based on speed, load, operating temperature and gear geometry for enclosed spur, helical, bevel and worm gear drives. To simplify the selection procedure Mobilgear SHC XMP Series oils are manufactured in a wide range of viscosities to meet builder specification requirements.

Properties

Mobilgear SHC XMP Series oils have outstanding load carrying properties - extreme pressure characteristics and resistance to metallic wear. They all have a Timken pass load of 65 lbs.

These oils possess an extremely high level of resistance to oxidation and chemical degradation to keep gear cases, reservoirs and circulation systems free from sludge and deposits even at high bulk oil temperatures. This gives very long service life.

They have friction modifying characteristics which reduce power consumption and lower bulk oil temperatures to reduce oxidation further.

Mobilgear SHC XMP Series oils protect against copper corrosion and rusting in both liquid and vapour phases.

Their water separating properties are excellent and they strongly resist foaming in service.

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.

Product Characteristics

Mobilgear SHC XMP

	150	220	320	460	680
ISO Viscosity Grade	150	220	320	460	680
AGMA No.	4EP	5EP	6EP	7EP	8EP
Density at 15°C	0.855	0.850	0.860	0.863	0.866
Viscosity, cSt at 40°C	150	220	320	460	680
Viscosity, cSt at 100°C	21.2	28.3	37.4	48.5	64.6
Viscosity Index	166	166	166	166	166
Pour Point, °C	-48	-45	-39	-36	-30
Flash Point (COC), °C	240	240	240	240	240
FZG Scuffing test, fail stage	13+	13+	13+	13+	13+
FVA 54/11Micropitting test	-	10/high	10/high	10/high	10/high

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

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