

Product Data Sheet

Mobilgear XMP Series High Performance Industrial Gear Lubricants

Product Description

The Mobilgear XMP Series oils are high performance mineral oil based gear lubricants designed to provide improved component protection and lubricant lifetime compared to conventional mineral gear oils.

They are based on an advanced and carefully balanced additive system which is formulated 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, compared to conventional gear oil chemistries, improved lubrication of rolling element bearings associated with most gearboxes is provided.

Mobilgear XMP Series oils offer the following performance features:

- Excellent protection against both wear and micropitting for gears and bearings
- Outstanding rust and corrosion protection versus conventional gear oils
- Resistance to deposit formation and overall 'keep clean' performance
- No tendency to block fine filters even when wet
- Excellent resistance to foaming
- Excellent compatibility with non ferrous metals
- Rapid separation from water

Benefits

Mobilgear XMP Series oils offer the following benefits:

- Extended component lifetimes (both gears and associated bearings)
- Extended lubricant lifetime and drain intervals possible
- Trouble free operation over extended periods

Application

Mobilgear XMP Series oils are recommended for all types of enclosed industrial gear drives including steel on steel spur, helical and bevel gears and worm gear applications that may employ steel on bronze metallurgies.

They are particularly recommended for any applications which may be subject to micropitting, e.g. heavily loaded gearboxes with surface hardened tooth metallurgies - including wind turbines or plastic extruder equipment; applications where corrosion may be severe and applications where control of oil cleanliness through fine filtration is in use.

Selection of lubricant viscosity is based on speed, load, operating temperature and gear geometry for enclosed spur, helical and bevel gear drives. The viscosity required increases as the speed decreases, or as the operating temperature increases. In general splash lubricated applications require higher viscosity oils than units equipped with circulation systems.

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

Mobilgear XMP

	68	100	150	220	320	460	680
Density at 15°C	0.887	0.890	0.896	0.900	0.903	0.907	0.917
Viscosity, cSt at 40°C	68	100	150	220	320	460	680
Viscosity, cSt at 100°C	8.6	11.1	14.6	18.8	24.1	30.6	36.9
Viscosity Index	95	95	95	95	95	95	90
Pour Point, °C	-27	-27	-27	-24	-18	-12	-9
Flash Point, °C COC	225	225	230	230	240	240	245
FZG Scuffing test, fail stage	13+	13+	13+	13+	13+	13+	13+
FVA, 54/II Micropitting 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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