

Mobilgear™ XMP

Extra High Performance Industrial Gear Oils

Product Description

Mobilgear M XMP Series extra high performance industrial gear oils are designed to provide optimum equipment protection and oil life even under extreme conditions. Mobilgear XMP Series are based on high quality mineral base stocks and an advanced proprietary additive system designed to provide excellent protection against conventional wear modes such as scuffing but also provides a high level of resistance against micropitting fatigue. It also offers the potential for improved lubrication of gearbox rolling element bearings. Mobilgear XMP Series products offer outstanding rust and corrosion protection versus conventional gear oils, including seawater and acidic water protection. They show no tendency to plug fine filters even when wet and excellent compatibility with ferrous and non-ferrous metals even at elevated temperatures.

Mobilgear XMP lubricants are recommended for enclosed industrial gear drives including steel-on-steel spur, helical, and bevel gears. It is especially recommended for applications that may be subject to micropitting: especially heavily loaded gearboxes with surface-hardened tooth metallurgies. It may also be used in gear applications and where corrosion may be severe.

Because of their unique mix of properties, including resistance to micropitting wear, and their performance in tough applications, Mobilgear XMP Series products enjoy a growing reputation among customers and OEMs around the world.

Features and Benefits

The Mobilgear brand of lubricants is recognised and appreciated around the world for innovation and outstanding performance. A key factor in the development of Mobilgear XMP Series was the close contacts between our scientists and application specialists with key OEMs to ensure that our product offerings will provide exceptional performance with the rapidly evolving industrial gear designs and operation.

Our work with equipment builders has helped confirm the results from our own laboratory tests showing the exceptional performance of the Mobilgear XMP Series lubricants. Not least among the benefits shown in work with OEMs is the ability to resist micropitting wear which can occur with some highly loaded, case-hardened gearing applications. This cooperative work also demonstrated the all-round balanced performance benefits for the new Mobilgear SHC XMP technology.

To address the issue of micropitting gear wear, our product formulation scientists designed a proprietary combination of additives which would resist traditional gear wear mechanisms as well as protecting against micropitting and providing other key performance features. The Mobilgear XMP Series lubricants offer the following benefits:

Features	Advantages and Potential Benefits				
Superb protection from micropitting fatigue wear as well as high resistance to traditional scuffing wear	Extended gear and bearing life in enclosed gear drives operating under extreme conditions of load, speed and temperature				
	Reduced unexpected downtime and less maintenance - especially critical for difficult to access gearboxes.				
Very good resistance to degradation at high temperatures	Extended oil life and drain intervals reduced oil consumption and manpower costs				
Excellent resistance to rust and corrosion and very good demulsibility	Smooth, trouble-free operation at high temperatures or in water-contaminated applications				
No filter plugging, even in presence of water	Excellent compatibility with soft metals Less filter changes and reduced maintenance costs				

Applications

Mobilgear XMP Series extra high performance, industrial gear oils are designed to provide optimum equipment and oil life even under extreme conditions. They are especially formulated to resist micropitting of modern, case hardened gearing and applications where extended oil life is desired. Typical applications include:

- Wind turbines
- Plastic extruder gearboxes
- Gearboxes found in the paper, steel, oil, textile, lumber and cement industries

Specifications and Approvals

Mobilgear XMP Meets the following industry specifications	Mobilgear XMP 100	Mobilgear XMP 150	Mobilgear XMP 220	Mobilgear XMP 320	Mobilgear XMP 460	Mobilgear XMP 680
ISO L-CKC, (ISO 12925-1, 1996)	X	X	X	Χ	X	X
AGMA 9005-EO2	-	-	EP	EP	EP	-

Mobilgear XMP has the following builder approvals	Mobilgear XMP 100	Mobilgear XMP 150	Mobilgear XMP 220	Mobilgear XMP 320	Mobilgear XMP 460	Mobilgear XMP 680
Jahnel-Kestermann			X	Χ	Χ	
Hansen	Χ	Χ	Χ	Χ	Χ	

Typical Properties

	Mobilgear XMP 100	Mobilgear XMP 150	Mobilgear XMP 220	Mobilgear XMP 320	Mobilgear XMP 460	Mobilgear XMP 680
ISO Viscosity Grade	100	150	220	320	460	680
Viscosity, ASTM D 445						
cSt @ 40° C	100	150	220	320	460	680
cSt @ 100° C	11.1	14.6	18.8	24.1	30.6	36.9
Viscosity Index, ASTM D 2270	96	96	96	96	96	89
Pour Point, °C, ASTM D 97	-30	-27	-24	-18	-12	-9
Flash Point, °C, ASTM D 92	250	258	272	268	270	272
Density @15.6° C, ASTM D 4052, kg/l	0.890	0.896	0.900	0.903	0.909	0.917
FZG Micropitting, FVA Proc No. 54,						
Fail Stage			10+	10+	10+	10+
GFT-Class			High	High	High	High
FZG Scuffing, DIN 51534 (mod)						
A/16.6/90, Fail Stage	12	12	13+	14	14+	14+
A/8.3/90, Fail Stage	12+	12+	13+	14	14+	14+
4-Ball EP test, ASTM D 2783,						
Weld Load, kg	250	250	250	250	250	250
Load Wear Index, kgf	45	45	45	45	45	45
Rust Protection, ASTM D 665,						
Sea Water	Pass	Pass	Pass	Pass	Pass	Pass
Copper Strip Corrosion, ASTM D 130, 3 hrs @ 100° C	1B	1B	1B	1B	1B	1B
Water Separability, ASTM D 1401, Time to 40/37	^{/3} 10	10	10	10	10	10

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Foam Test, ASTM D 892, Seq I Tendency/Stability, 0/0	0/0	0/0	0/0	0/0	0/0	
ml/ml	0/0	0/0	0/0	0/0	0/0	

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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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

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