

ExxonMobil 680 Mobilgear SHC XMP Series

Category : Fluid , Lubricant , Polyalphaolefin (PAO)

Material Notes:

Mobilgear SHC XMP Series supreme performance, fully synthetic industrial gear oils designed to provide optimum equipment protection and oil life even under extreme conditions. Mobil polyalphaolefin (PAO) technology has been selected for its exceptional oxidation resistance and thermal properties, naturally high viscosity index, excellent low temperature fluidity and absence of undesirable compounds that are often found in mineral oils. The high viscosity index and low traction coefficient of this oil combine to provide a significant reduction in power consumption in many gear drives. Mobilgear SHC XMP Series lubricants contain an advanced and carefully blended 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. In addition, compared to conventional gear oil chemistries, it offers the potential for improved lubrication of gearbox rolling element bearings. Mobilgear SHC 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 have excellent compatibility with ferrous and non-ferrous metals even at elevated temperatures. Mobilgear SHC 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 where extreme low and/or high temperatures are encountered and applications where corrosion may be severe. Because of their unique mix of properties, including resistance to micropitting wear, and their performance in tough applications and wide temperature range, Mobilgear SHC XMP Series products enjoy a growing reputation among customers and OEMs around the world.

Application Considerations: While the Mobilgear SHC XMP Series are compatible with mineral oil based products, admixture may detract from their performance. Consequently it is recommended that before changing a system to one of the Mobilgear SHC XMP Series, it should be thoroughly cleaned out and flushed to achieve the maximum performance benefits. Mobilgear SHC XMP Series supreme performance, fully synthetic industrial gear oils designed to provide optimum equipment protection and oil life even under extreme conditions. They are especially formulated to resist micropitting of modern, case hardened gearing and can operate in both high and low temperature environments. Typical applications include: Wind turbines, especially highly loaded and shock loaded units, remotely located units and extreme temperature environments; Plastic extruder gearboxes; Modern, highly loaded gearboxes used in the paper, steel, oil, textile, lumber and cement industries where gear protection and optimum oil life are required

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-680-Mobilgear-SHC-XMP-Series.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.866 g/cc	0.866 g/cc	15.6°C; ASTM D4052
Viscosity Measurement	168	168	Index; ASTM D2270
Kinematic Viscosity at 40°C (104°F)	680 cSt	680 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	65.3 cSt	65.3 cSt	ASTM D445

Mechanical Properties	Metric	English	Comments
	0.250 mm	0.00984 in	20 kg, 54°C, 1800 rpm, 1 hr; ASTM

Four Ball Wear Mechanical Properties	Metric	English	D4172 Comments
Thermal Properties	Metric	English	Comments
Pour Point	-30.0 °C	-22.0 °F	ASTM D97
Flash Point	238 °C	460 °F	ASTM D92

Descriptive Properties	Value	Comments
Demulsibility Time (min)	10	to 3 mL emulsion @ 82°C
Foam Sequence II, ASTM D893	0/0	
FZG Micropitting, FVA Proc. No. 54, Fail Stage	10	High GFT-Class
FZG Scuffing Test, A/16.6/90, Fail Stage	14+	DIN 51534
Rust Prevention, Synthetic Sea Water	pass	ASTM D665B

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