

Meropa[®] EliteSyn[™] XM

High Performance Synthetic Gear Oil



Product description

Meropa[®] EliteSyn[™] XM oils are a range of premium, high performance synthetic gear oils, formulated to offer excellent efficiency, reduced operating temperatures, long lubricant life, and robust micropitting wear protection. They are designed for use in industrial and marine gear systems, where extreme load and shock load protection is required.

Customer benefits and product features

Meropa[®] EliteSyn[™] XM lubricants, formulated with an advanced additive package, deliver value through:

- **Equipment efficiency**
Advanced additive technology designed to reduce power consumption offers increased energy, equipment and productivity efficiencies.
- **Helps reduce operating temperatures**
Synthetic base oils provide a lower coefficient of friction and can lower gearbox operating temperatures when compared with mineral oil products.
- **Long lubricant life**
Very high oxidation resistance promotes long drain intervals.
- **Wide temperature range**
Low and high temperature protection allows equipment operating temperature range from -30°C to 140°C, a far wider range than conventional gear oils.
- **Provides micropitting resistance**
Formulated to deliver excellent micropitting and wear protection to help reduce maintenance requirements and increase system uptime.

Product Features

Meropa[®] EliteSyn[™] XM gear oils are formulated to be our ultimate offering that meets or exceeds industry performance standards. They are designed to provide performance and protection even in latest generation smaller, lighter and more energy efficient gearboxes with higher pressures and operating temperatures. The additives in Meropa[®] EliteSyn[™] XM are compatible with paint coatings and with multiple types of seals to minimize the possibility of leaking seals and paint blistering on the inside of the gearbox. By comparison, products with overaggressive chemistries may attack paint coatings and cause filter plugging.

Meropa[®] EliteSyn[™] XM

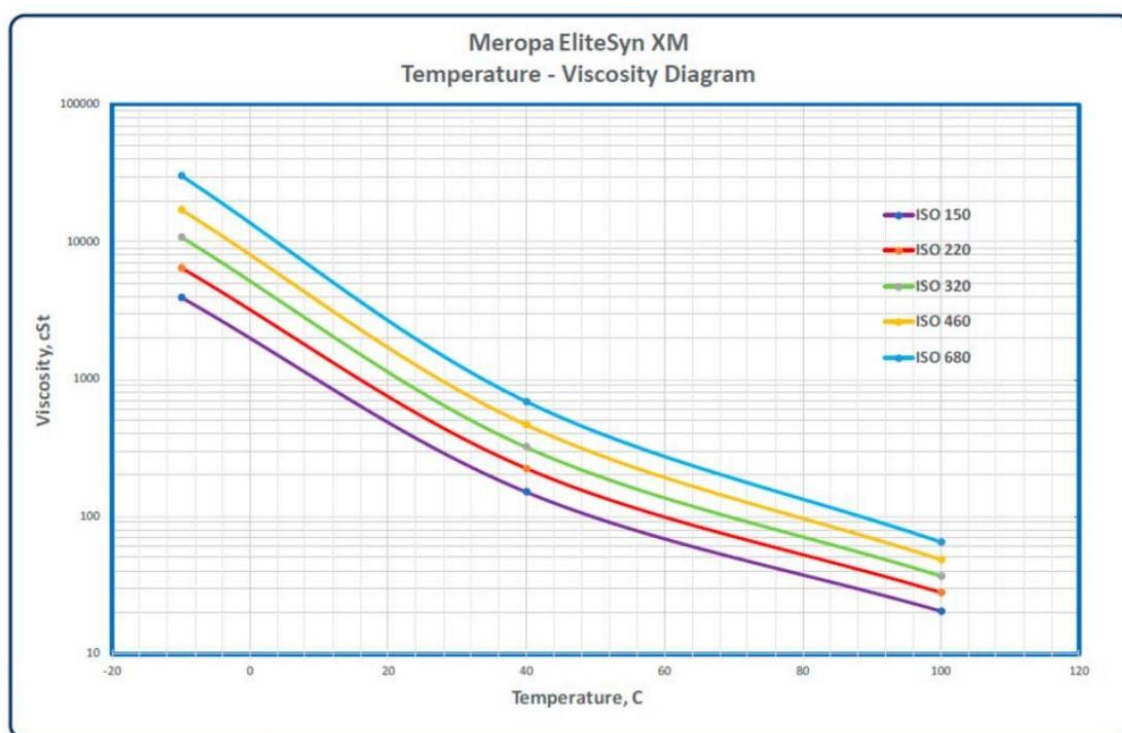
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Applications

Meropa[®] EliteSyn[™] XM gear oils can be applied in:

- Industrial enclosed gearing where an AGMA EP lubricant is specified.
- Bath, splash, circulating, or spray mist lubrication as applicable to the proper viscosity grade.
- Marine gearboxes requiring an extreme pressure lubricant.
- Rexnord gear drives requiring a synthetic extreme pressure or synthetic micropitting resistant lubricant.



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Approvals, performance and recommendations

Developed independently by Chevron to comply with the following performance standards:

ISO Grade	150	220	320	460	680
AIST (formerly U.S. Steel) 224	M	M	M	M	M
ANSI/AGMA 9005-F16-AS	M	M	M	M	M
Alfa Laval Pure bilge Oily Water Separator		A			
DIN 51517/3 CLP	M	M	M	M	M
DIN 51517/4 CLPX	M	M	M	M	M
David Brown S1.53.101(5E)	M	M	M	M	M
Fives Cincinnati	M P-77	M P-74	M P-59	M P-35	M P-34
Flender Rev. 16.1 Helical-Bevel-Planetary Gear Units	A	A	A	A	A
GE D50E35			M	M	M
Hansen Gear Units Series HP1, HP2, HPP, P4 and M4ACC	A	A	A	A	A
Hitachi AC Final Drive Gear	M	M	M	M	M
ISO 12925-1 CKC	M	M	M	M	M
ISO 12925-1 CKD	M	M	M	M	M
ISO 12925-1 CKSMP	M	M	M	M	M
Joy Mining Machinery		M TO- SMEP	M TO- SHEP		
Pekrun Werknorm N8053	A	A	A	A	A
Renk Augsburg - Renk Std. ZAN 36011	A	A	A	A	
Renk Rheine - Renk Std. B465330-6 - without multiple disc clutch	A	A			
Rexnord® Falk gear drive models: Class V, A, F, J, Planetgear Obsolete Falk gear drive models: Class D, G, Y, Link Belt Model "R"	A	A	A	A	A
Rexnord® Falk EP + MP resistance	A	A	A	A	A
SEW-Eurodrive Rev. 07 004 05 13 Helical-Bevel-Planetary Gear Units: X.e, M1..N, ML..2, MC..Series Planetary Gear Units: P..2e, P..2, XP.., P-X.e, PPK.. Series	A	A	A	A	A
Starrag Heckert		A	A		A
Sumitomo Drive Technologies Paramax 9000 -	A	A	A	A	A
ZF		A TE-ML 27F	A TE-ML 27H	A TE-ML 27J	

a: Consult with Rexnord/Falk Gear for applications: worm gear drives, high-speed drives, open gearing or any custom gear drive
A: Approved M: Meets the requirements

Consult OEM representatives for independent verification, updates and recommendations.

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Typical test data

MEROPA® ELITESYN™ XM	TEST METHOD	RESULTS				
ISO Grade		150	220	320	460	680
Product Code		533303	533304	533305	533306	533307
Appearance	SM 360	1	1	1	1	1
Density @ 15°C, kg/l	ASTM D4052	0.8754	0.8836	0.8912	0.8975	0.9041
Flash Point, COC °C	ASTM D92	237	239	242	243	244
Viscosity, Kinematic, mm ² /s @ 40°C	ASTM D445	150.0	220	320	460	680
Viscosity Index	ASTM D2270	160	160	160	160	160
Copper Corrosion 3 h, 100	ASTM D130	-	-	-	-	-
Acid Number, mg KOH/g	ASTM D974	0.75	0.75	0.75	0.75	0.75
Boron, mg/kg	ICP/AA	29	29	29	29	29

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ENVIRONMENT, HEALTH, and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions, and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit the Product Information Center.

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