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 help offer efficiency, reduced operating temperatures, long lubricant life, and 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

Customer Benefits

- **Supports equipment efficiency**
  Advanced additive technology helps reduce power consumption, contributing to improved energy efficiency and equipment productivity.
- **Helps reduce operating temperatures**
  Synthetic base oils offer a lower coefficient of friction and can help reduce gearbox operating temperatures compared with mineral oil products.
- **Helps promote long lubricant life**
  High oxidation resistance helps support extended drain intervals.
- **Wide operating temperature range**
  Low- and high-temperature protection supports equipment operation across a temperature range of -30°C to +140°C.
- **Helps provide micropitting resistance**
  Advanced additive technology helps provide micropitting and wear protection, contributing to reduced maintenance requirements and increased system uptime.

Product Features

Meropa® EliteSyn™ XM gear oils are high performance synthetic lubricants developed to meet or exceed industry performance standards. They are suitable for use in modern, compact and energy-efficient gearboxes operating under high pressures and elevated temperatures.
The additive technology is compatible with a range of paint coatings and seal materials, helping reduce the risk of seal leakage and paint blistering inside the gearbox. This compatibility also helps minimize the risk of paint coating deterioration and associated filter plugging.

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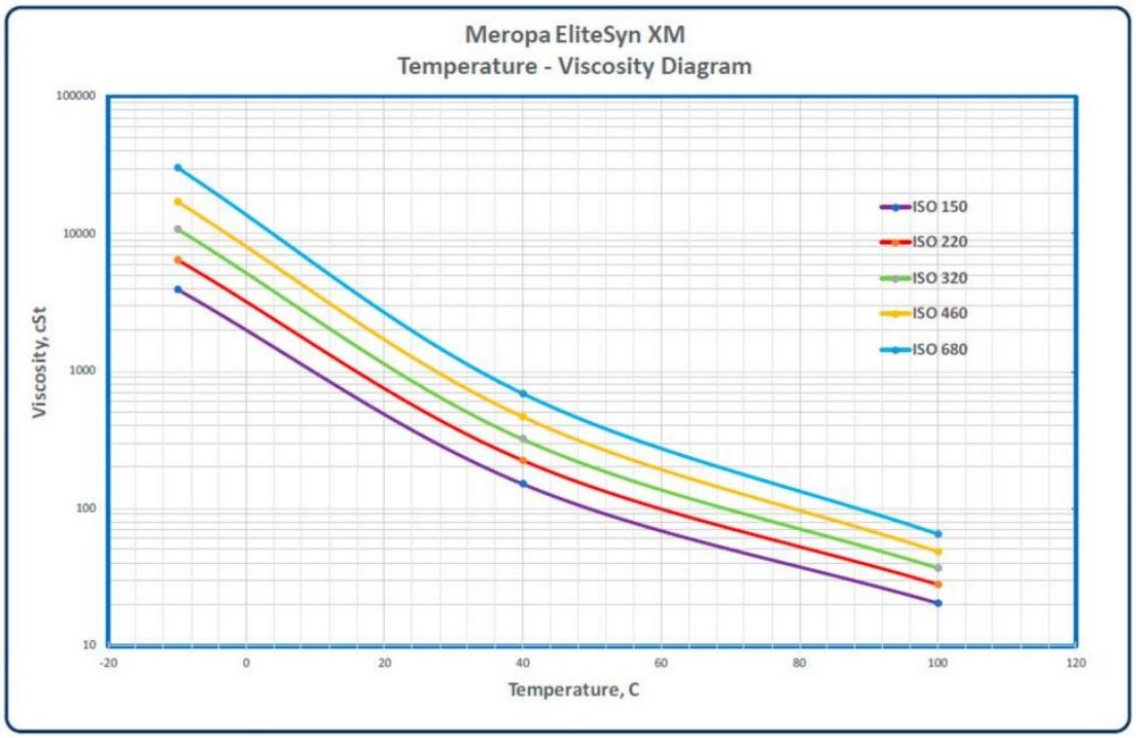
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Applications

Meropa® EliteSyn™ XM gear oils are suitable for use in:

- Industrial enclosed gear systems where an AGMA extreme pressure (EP) lubricant is specified.
- Bath, splash, circulating and spray mist lubrication systems, where appropriate for the selected viscosity grade.
- Marine gearboxes requiring an extreme pressure (EP) lubricant.
- Rexnord gear drives requiring a synthetic extreme pressure (EP) or synthetic micropitting-resistant lubricant.



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Approvals, performance and recommendations

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. 17 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[a] 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[a] 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

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CALTEX

Typical test data

MEROPA® ELITESYN™ XM	TEST METHOD	RESULTS				
ISO Grade		**150**	**220**	**320**	**460**	**680**
Product Code		**533303**	**533304**	**533305**	**533306**	**533307**
AGMA Grade		4 EP	5 EP	6 EP	7 EP	8 EP
Density at 15°C	ASTM D4052	0.8754	0.8754	0.8754	0.8754	0.8754
Viscosity at 40°C, cSt	ASTM D445	150	220	320	460	680
Viscosity at 100°C, cSt	ASTM D445	20.6	27.5	36.2	47.2	62.3
Viscosity Index	ASTM D2270	160	160	160	160	160
Flash Point, °C	ASTM D92	237	239	242	243	244
Pour Point, °C	ASTM D5950	-36	-36	-36	-36	-30
Foam Test, Seq. II, Tendency, mL	ASTM D892	50 max	50 max	50 max	50 max	50 max
Foam Test, Seq. II, Stability, mL	ASTM D892	0	0	0	0	0
Water Separation, Minutes to 0 mL emulsion	ASTM D1401	15	15	20	5	5
Copper Corrosion, 3 h @ 100°C	ASTM D130	1b	1b	1b	1b	1b
Rust Test	ASTM D665A	Pass	Pass	Pass	Pass	Pass
Rust Test	ASTM D665B	Pass	Pass	Pass	Pass	Pass
Four-Ball Weld, Weld Point, kg	ASTM D2783	250	250	250	250	250
Four-Ball Weld, Load Wear Index	ASTM D2783	58	58	58	58	58
FZG Scuffing (A/8.3/90), Fail Stage	ASTM D5182	>14	>14	>14	>14	>14
FZG Micropitting, Fail Stage	FVA 54	10/High	10/High	10/High	10/High	10/High
FAG FE-8 Bearing Test, Roller Weight Loss, mg	DIN 51819-3	Pass	Pass	Pass	Pass	Pass

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ENVIRONMENT, HEALTH, and SAFETY. Information is available on this product in the Safety Data Sheet (SDS) 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 an SDS for this product, visit the Product Information Center.

This Product Data Sheet (PDS) was produced for the Asia-Pacific region in good faith from the best information available at the time of issue. The specific information included may not directly reflect the local market or conditions. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. For the most up-to-date, country-specific information, please contact your local customer service center.

Customers should always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

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Chevron's Family of Brands

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