



Meropa[®] EliteSyn XM

Product description

Meropa EliteSyn XM oils are premium high performance synthetic gear oils, designed to offer maximum 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.

Meropa EliteSyn XM gear oils are formulated to be our ultimate offering that meets or exceeds many industry performance standards. Meropa EliteSyn XM is formulated to recognize the equipment manufacturers' desire for efficiency improvements in designing gearboxes that are smaller, lighter and more energy efficient.

Meropa EliteSyn XM contains additives to help protect paint coatings and provide compatibility with multiple types of seals to minimize the possibility of leaking seals and paint blistering on the inside of the gearbox.

Customer benefits

Meropa EliteSyn XM lubricants deliver value through:

- **Maximum efficiency** — advanced additive technology, resulting in less power consumption, provides the opportunity for energy, equipment and productivity efficiencies.
- **Reduced operating temperatures** — synthetic base oils provide a lower coefficient of friction and can lower gearbox operating temperatures versus a mineral oil product.
- **Long lubricant life** — very high oxidation resistance promotes long drain intervals.
- **Wide temperature range** — extremely low cold weather and high temperature protection that allows equipment operating temperature ranges from -30°C to 140°C, a far wider range than conventional gear oils.
- **Provides micropitting resistance** — designed to deliver maximum micropitting and wear protection with reduced maintenance and increased system uptime.

Applications

Meropa EliteSyn XM gear oils are recommended for:

- 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 without multi-disk Clutch.

Approvals, performance and recommendations

Approvals

- Siemens Industrial gear units Rev. 16

Performance

Operating temperature: -30°C up to 140°C

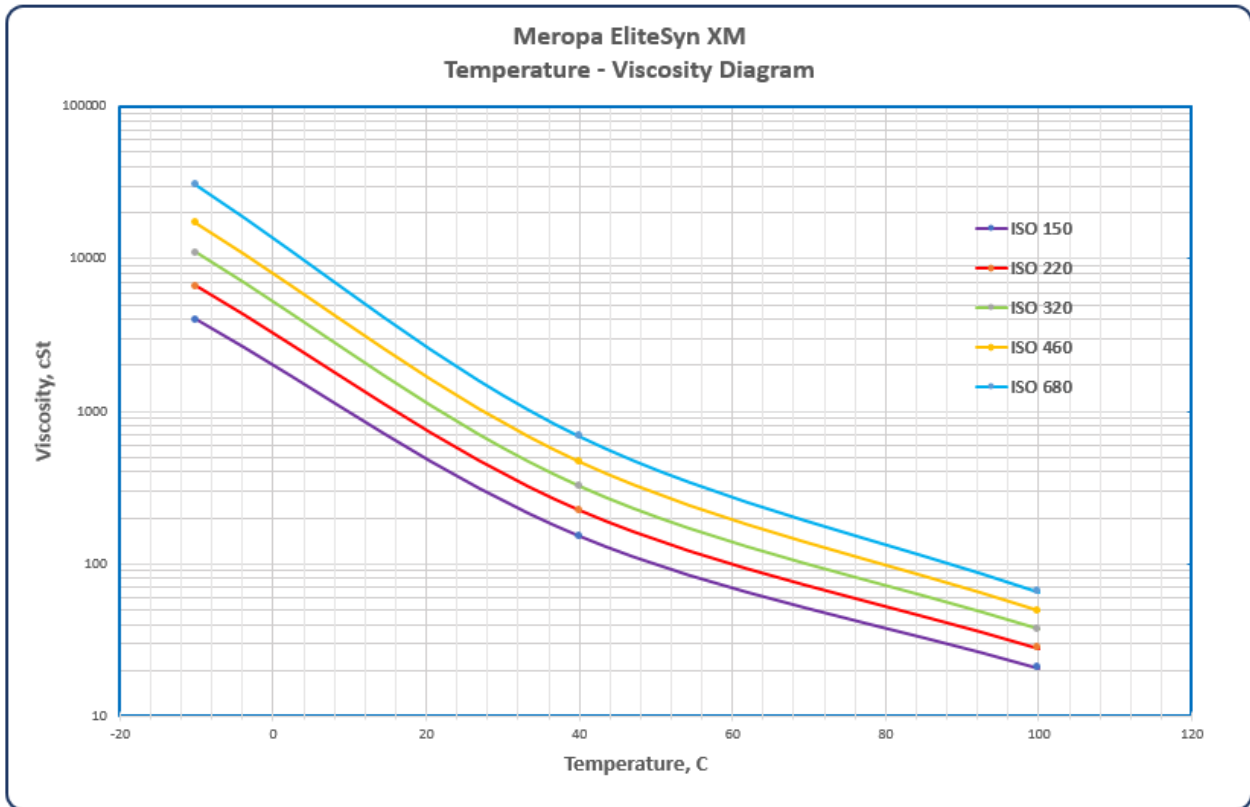
- Din 51517-3 CLP
- ANSI/AGMA 9005-F16-AS
- ISO 12925-1 CKC/CKD
- US Steel 224
- David Brown S1.53.101(SE)
- Hitachi AC Final Drive Gear (ISO 460 and ISO 680)

Typical test data						
Test	Test Methods	Results				
Viscosity Grade		150	220	320	460	680
Shelf Life: 36 months from date of filling indicated on the product label						
AGMA Grade		4EP	5EP	6EP	7EP	8EP
Kinematic Viscosity at 40°C, mm ² /s	ASTM D445	151	223	320	464	688
Kinematic Viscosity at 100°C, mm ² /s	ASTM D445	20.6	27.7	37.0	48.8	65.5
VI	ASTM D2270	159	161	165	165	167
Density at 15°C, kg/l	ASTM D4052	0.8754	0.8836	0.8912	0.8975	0.9041
Flash Point, COC, °C	ASTM D92	224	224	224	224	224
Pour Point, °C	ASTM D2270	-39	-39	-39	-36	-33
Rust Test A	ASTM D665A	Pass	Pass	Pass	Pass	Pass
Rust Test B	ASTM D665B	Pass	Pass	Pass	Pass	Pass
Four Ball EP, Weld, kgf	ASTM D2783	315	315	315	315	315
Timken OK Load, lb	ASTM D2509	>100	>100	>100	>100	>100
FZG, Failure Load Stage (A/8.3/90)	DIN 51354	>14	>14	>14	>14	>14
FAG FE-8 Roller Bearing test Roller Weight Loss, mg	DIN 51819/3	1	1	1	1	1
FZG Micropitting Failure stage	FVA 54	10/ high	10/ high	10/ high	10/ high	10/ high

Minor variations in product typical test data are to be expected in normal manufacturing.

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

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

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