

Meropa® XL

High-performance gear oils



Product description

Meropa® XL gear oils are premium high-performance gear oils, offering long lubricant life, corrosion protection, excellent wear protection with high load carrying capacity 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

Customer benefits

- **Provides thermal and oxidative stability**
The thermal and oxidative stability of Meropa® XL helps minimize deposit formation and can help to promote bearing and gear life. Excellent resistance to oil degradation at high temperatures, promotes oil life and long drain intervals.
- **Rust and corrosion protection**
Meropa XL helps protect against rust and corrosion over long service periods.
- **Promotes gear and bearing life**
Particularly effective in enclosed gear drives operating under extreme load, speed, and temperature conditions.
- **Less wear**
Contributes to optimum wear protection in order to reduce maintenance and increase system uptime.
- **Provides micropitting resistance**
Delivers excellent micropitting and wear protection in order to reduce maintenance and increase system uptime. Approved by Flender Gear Units for helical, bevel and planetary gear units. Micropitting performance is a key component in the Flender approval.
- **Keeps components clean**
Advanced additive technology helps prevent varnish and sludge and helps keep components clean. Clean components can contribute to long lubricant and equipment life.

Product features

- Meropa XL gear oils are designed to help ensure optimal performance in today's smaller, lighter and more energy efficient industrial gear systems. The advanced formulation is balanced to help provide extreme pressure protection and help protect against yellow metal corrosion. The robust chemistry is compatible with multiple types of sealant and paint coatings, and helps to minimize the possibility of leaking seals and paint blistering on the inside of the gearbox.

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Applications

All Meropa XL gear oils are recommended by Chevron for:

- Industrial enclosed gearing where an AGMA EP lubricant is specified
- Industrial enclosed gearing where DIN 51517 (CLP) 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 an extreme pressure or conventional micropitting resistant lubricant

Also recommended by Chevron for a variety of gears, including:

- Spur, bevel, helical, worm and industrial hypoid gear cases on mobile contractor type equipment
- Underground mining equipment
- Cement mills, ball mills
- Rolling mills
- Crushers
- Shakers
- Hoists
- Conveyors
- Machine tools
- Marine equipment

Product approvals, performance and recommendations

MEROPA® XL	RESULTS					
ISO Grade	68	150	220	320	460	680
AIST (formerly U.S. Steel) 224	M	M	M	M	M	M
ANSI/AGMA 9005-F16-AS	M	M	M	M	M	M
DIN 51517/3 CLP	M	M	M	M	M	M
David Brown S1.53.101(5E)	M	M	M	M	M	M
Fives Cincinnati		A	A	A	A	A
		P-77	P-74	P-59	P-35	P-34
Flender Gear Units, Rev. 16		A	A	A	A	A
Grob Lubricant Chart		A	A	A	A	
ISO 12925-1 CKC	M	M	M	M	M	M
ISO 12925-1 CKD	M	M	M	M	M	M
Joy Mining Machinery			M	M	M	
			M	M	M	
Rexnord ^a Falk gear drive models: V, A, F, J, Planetgear	A	A	TO-MEP A	TO-HEP A	TO-HD A	A
Obsolete Falk gear drive models: Class D, G, Y, Link Belt Model "R"						
SMS Group SN 180-2		A	A	A	A	A
Sumitomo Drive Technologies Paramax 9000		A	A	A		
ZF TE-ML 04H		A				

Consult with Rexnord/Falk Gear for applications: worm gear drives, high-speed drives, open gearing or any custom gear drive.

Consult OEM representatives for independent verification, updates and recommendations.

A: Approved for use by the relevant third party manufacturer.

M: Meets or exceeds requirements, based on testing conducted by Chevron.

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Typical Test Data

MEROPA® XL	RESULTS			
ISO Grade	68	150	220	320
Product Number	277414	277410	277411	277412
SDS Number	37390	37390	37390	37390
AGMA Grade	2 EP	4 EP	5 EP	6 EP
API Gravity	31.7	33.6	31.6	29.5
Density at 15°C, kg/L	0.87	0.87	0.87	0.88
Viscosity, Kinematic				
- cSt at 40°C	68	150	220	320
- cSt at 100°C	9.1	16.3	21.9	29.1
Viscosity Index	110	115	120	124
Flash Point, °C(°F)	224(435)	250(482)	248(478)	248(478)
Pour Point, °C(°F)	-26(15)	-36(-33)	-30(-22)	-30(-22)
Foam Properties Sequence I-III, D892				
- Tendency, mL	0	0	0	0
- Stability, mL	0	0	0	0
Copper Corrosion, D130 3 hr at 100°C	1B	1B	1B	1B
Rust Test, D665B	Pass	Pass	Pass	Pass
Steel Pin Corrosion (24 hrs 60°C), ISO 7120B Synthetic Sea Water	Pass	Pass	Pass	Pass
FAG FE-8 (D7.5-80/80-80), DIN 51819-3 Roller Weight Loss, (mg)	3	1.0	1.0	1.0
FZG Pass Stage, ASTM D5182	—	> 12	> 12	> 12
FZG Micropitting, FVA 54, failure load stage	—	10/High	10/High	10/High

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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