



MEROPA[®] XL

68, 150, 220, 320, 460, 680

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

Meropa XL gear oils deliver value through:

- **Provides thermal and oxidative stability** — The thermal and oxidative stability of Meropa XL minimizes deposit formation and can extend bearing and gear life. Excellent resistance to oil degradation at high temperatures, resulting in extended oil life and long drain intervals.
- **Rust and corrosion protection** — Meropa XL offers rust and corrosion protection over long service periods.
- **Extended gear and bearing life** — Particularly effective in enclosed gear drives operating under extreme load, speed, and temperature conditions.
- **Less wear** — Ensures optimum wear protection with reduced maintenance and increased system uptime.
- **Provides micropitting resistance** — Delivers excellent micropitting and wear protection with reduced maintenance and increased 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 keeps components clean. Clean components can contribute to long lubricant and equipment life.

- **Water separation** — Excellent demulsibility and corrosion protection for trouble-free operation in applications where water contamination is unavoidable.

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 provide extreme pressure protection, while providing protection 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. Competitive products with over-aggressive chemistries will attack the paint coatings and cause filter plugging.



APPLICATIONS

Meropa XL gear oils are recommended 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 for a variety of gears, including:

- Spur, bevel, helical, worm and industrial hypoid gear cases on mobile contractor type equipment
- Underground mining equipment

Product(s) manufactured in the USA.

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.

A **Chevron** company product

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- Cement mills, ball mills
- Rolling mills
- Crushers
- Shakers
- Hoists
- Conveyors
- Machine tools
- Marine equipment

CLAIMS AND SPECIFICATIONS

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	M P-63	M P-77	M P-74	M P-59	M P-35	M P-34
Flender Rev. 16 Helical-Bevel-Planetary Gear Units		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 TO-MEP	M TO-HEP	M TO-HD	
Pekrun Werknorm N8053		A	A	A	A	
Reintjes BV1597/3, BV1597/4 BV1917/3, BV1917/4 BV2060/3, BV2060/4		M				
Rexnord ^a Falk gear drive models: V, A, F, J, Planetgear Obsolete Falk gear drive models: Class D, G, Y, Link Belt Model "R"	A	A	A	A	A	A
Rexnord ^a Falk EP + MP Resistance	A	A	A	A	A	A
SMS Group SN 180-2		A	A	A	A	A
Sumitomo Drive Technologies Paramax 9000		A	A	A		
Waldrich Siegen Lubricants for Machine Tools	A	A	A	A		A
ZF TE-ML 04H		A				

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

A: Approved for **M:** Meets or exceeds requirements

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TYPICAL TEST DATA

ISO Grade	Test Method	68	150	220
<i>Product Number</i>		277414	277410	277411
<i>SDS Number</i>		46389	37390	37390
AGMA Grade		2 EP	4 EP	5 EP
API Gravity	ASTM D287	31.6	33.7	31.6
Density at 15°C, kg/L	ASTM D4052	0.8670	0.8560	0.8670
Viscosity, Kinematic cSt at 40°C cSt at 100°C	ASTM D445	68 9.3	150 16.4	220 21.9
Viscosity Index	ASTM D2270	112	115	120
Flash Point, °C(°F)	ASTM D92	224(435)	250(482)	248(478)
Pour Point, °C(°F)	ASTM D97	-15(5)	-36(-33)	-30(-22)
Foam Test Seq. I Tendency, mL Stability, mL	ASTM D892	0 0	0 0	0 0
Water Separation Minutes to 3 mL emulsion	ASTM D1401	5	10	5
Copper Corrosion, 3 hr at 100°C	ASTM D130	1B	1B	1B
Rust Test	ASTM D665B	Pass	Pass	Pass
Steel Pin Corrosion (24 hrs 60°C)	ISO 7120B	Pass	Pass	Pass
FAG FE-8 Bearing Test, Roller Weight Loss, (mg)	DIN 51819-3	3	1.0	1.0
FZG Pass Stage	ASTM D5182	> 12	> 12	> 12
FZG Micropitting, Fail Stage	FVA 54	—	10/High	10/High

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

Meropa XL gear oils have the typical sulfur-phosphorus odor characteristic of industrial gear oils. A ventilated environment is recommended during use.

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TYPICAL TEST DATA

ISO Grade	Test Method	320	460	680
Product Number		277412	277413	277416
SDS Number		37390	37390	37390
AGMA Grade		6 EP	7 EP	8 EP
API Gravity	ASTM D287	29.6	29.2	29.2
Density at 15°C, kg/L	ASTM D4052	0.8780	0.8800	0.8802
Viscosity, Kinematic cSt at 40°C cSt at 100°C	ASTM D445	320 29.2	460 38.4	680 50.2
Viscosity Index	ASTM D2270	124	127	127
Flash Point, °C(°F)	ASTM D92	248(478)	247(477)	238(460)
Pour Point, °C(°F)	ASTM D97	-30(-22)	-27(-17)	-33(-27)
Foam Test Seq. I Tendency, mL Stability, mL	ASTM D892	0 0	0 0	0 0
Water Separation Minutes to 3 mL emulsion	ASTM D1401	5	10	20
Copper Corrosion, 3 hr at 100°C	ASTM D130	1B	1B	1B
Rust Test	ASTM D665B	Pass	Pass	Pass
Steel Pin Corrosion (24 hrs 60°C)	ISO 7120B	Pass	Pass	Pass
FAG FE-8 Bearing Test, Roller Weight Loss, (mg)	DIN5181 9-3	1.0	1.0	1.0
FZG Pass Stage	ASTM D5182	> 12	> 12	> 12
FZG Micropitting, Fail Stage	FVA 54	10/High	10/High	10/High

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