

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

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

MEROPA® XL	RESULTS						
ISO Grade	68	100	150	220	320	460	680
Allmineral Lube Chart	A	A	-	A	A	A	A
Flender Gear Units, Rev. 16	-	-	A	A	A	A	A
Grob Lubricant Chart	-	-	A	A	A	A	-
PEKRUN WORKNORM N8053	-	A	A	A	A	A	-
Reintjes: BV1917/1, BV1917/2, BV1597/1, BV1597/2, BV2060/1, BV2060/2	-	A	-	-	-	-	-
Rexnord ^a Falk EP + MP resistance Rexnord 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	A
SMS Group SN 180-2	-	A	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	-	-	-	-
AIST (U.S. Steel) 224	-	M	M	-	M	-	-
ANSI/AGMA 9005-F16-AS	M	M	M	M	M	M	M
Chevron ISOCLEAN Certified Lubricant	M	-	M	M	M	M	M
DIN 51517/3 CLP	M	M	M	M	M	M	M
Fives Cincinnati	M P-68	M P-76	M P-77	M P-74	M P-59	M P-35	M P-34
Joy Mining Machinery	-	-	-	M TO-MEP	M TO-HEP	M TO-HD	-
Reintjes BV1917/3, BV1917/4, BV1597/3, BV1597/4, BV2060/3, BV2060/4	-	-	M	-	-	-	-
U.S. Steel 224	M	-	-	M	-	M	M

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

A: Approved for use by the relevant third party manufacturer. **M:** Meets or exceeds requirements, based on testing conducted by Chevron.

Consult OEM representatives for independent verification, updates and recommendations.

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Typical Test Data

MEROPA® XL	TEST METHOD	RESULTS						
ISO Grade		68	100	150	220	320	460	680
Product Number		533276	533277	533278	533279	533280	533281	533283
Density at 15°C, kg/L	ASTM D4052	0.867	0.8674	0.856	0.867	0.878	0.88	0.8802
Kinematic Viscosity								
mm ² /s @ 40°C	ASTM D445	68	100	150	220	320	460	680
mm ² /s @ 100°C	ASTM D445	9.1	12	16.3	22.3	29.7	37.3	50
Viscosity Index	ASTM D2270	112	112	115	120	124	127	127
Flash Point, COC, °C	ASTM D92	224	230	250	250	250	250	250
Acid Number, mg KOH/g	ASTM D974	0.52	0.52	0.52	0.52	0.52	0.52	0.52
Copper Corrosion, 3h, 100	ASTM D130	1B	1B	1B	1B	1B	1B	1B
Rust Test, Proc. B, 24	ASTM D665	9.1	12	16.3	22.3	29.7	37.3	50
Pour Point, C°	ASTM D97	-26	-26	-36	-37	-37	-36	-33

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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