



# MEROPA<sup>®</sup> XL ISOCLEAN<sup>®</sup> CERTIFIED LUBRICANT 68, 150, 220, 320, 460, 680

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## PRODUCT DESCRIPTION

Meropa<sup>®</sup> XL ISOCLEAN<sup>®</sup> Certified Lubricants 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. Chevron ISOCLEAN Certified Lubricants have been certified to meet specified ISO Cleanliness standards at point of delivery using industry leading filtration and testing technology. ISOCLEAN Certified products are the first step for contamination control and maximizing component life.



## CUSTOMER BENEFITS

Meropa XL ISOCLEAN Certified Lubricants deliver value through:

- **Ready to use** — Enables users to meet stringent original equipment manufacturers' cleanliness standards for fill lubricants.
- **Flexibility** — ISO Cleanliness targets can be customized to fit your business application needs.
- **Peace of mind** — Each delivery of Chevron ISOCLEAN Certified Lubricant includes an ISOCLEAN Certificate of Analysis.
- **OE fluid cleanliness requirements** — Customized to meet specific equipment manufacturers' fluid cleanliness requirements.
- **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 Siemens MD and Rev. 15 (FLENDER) for helical, bevel and planetary gear units. Micropitting performance is a key component in the Siemens MD 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.

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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GL-43 ISOCLEAN

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## FEATURES

Meropa® XL ISOCLEAN® Certified Lubricants are designed to help ensure trouble-free 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 ISOCLEAN Certified Lubricants 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
- Cement mills, ball mills
- Rolling mills
- Crushers
- Shakers
- Hoists
- Conveyors
- Machine tools
- Marine equipment

Consult with your Chevron Lubricant Representative or Chevron ISOCLEAN Certified Lubricants Marketer to set specific ISO Cleanliness targets for your business application.

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## 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		P-77	P-74	P-59	P-35	P-34
Flender Gear Units		<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>
Grob Lubricant Chart		<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	
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	
Rexnord <sup>a</sup> Falk gear drive models: V, A, F, J, Planetgear Obsolete Falk gear drive models: Class D, G, Y, Link Belt Model "R"	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>
SMS Group SN 180-2		<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>
Sumitomo Drive Technologies Paramax 9000		<b>A</b>	<b>A</b>	<b>A</b>		
ZF TE-ML 04H		<b>A</b>				

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	68	150	220	320
Product Number	274325	274306	274307	274308
SDS Number				
U.S.	46389	37390	37390	37390
Canada	46390	37391	37391	37391
Mexico	46391	37392	37392	37392
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	0.856	0.867	0.878
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, ASTM D892				
Tendency, mL	0	0	0	0
Stability, mL	0	0	0	0
Corrosion, Copper Strip, 3 hr at 100°C, ASTM D130	1B	1B	1B	1B
Rust Test, ASTM D665B	Pass	Pass	Pass	Pass
Steel Pin Corrosion (24 hours 60C) Synthetic Sea Water ISO 7120B	Pass	Pass	Pass	Pass
FAG FE-8 Roller Bearing Test, DIN 51819-3 Roller Weight Loss (mg)	3	1.0	1.0	1.0
FZG Pass Stage, ASTM D5182	—	> 12	> 12	> 12
FZG Micropitting, Failure Stage, FVA 54	—	10/High	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**

<b>ISO Grade</b>	<b>460</b>	<b>680</b>
<i>Product Number</i>	274309	274326
<i>SDS Number</i>		
<i>U.S.</i>	37390	37390
<i>Canada</i>	37391	37391
<i>Mexico</i>	37392	37392
AGMA Grade	7 EP	8 EP
API Gravity	29.3	28.9
Density at 15°C, kg/L	0.88	0.88
Viscosity, Kinematic		
cSt at 40°C	460	680
cSt at 100°C	38.2	50.0
Viscosity Index	127	127
Flash Point, °C(°F)	247(477)	238(460)
Pour Point, °C(°F)	-27(-17)	-33(-27)
Foam Properties Sequence I-III, ASTM D892		
Tendency, mL	0	0
Stability, mL	0	0
Corrosion, Copper Strip, 3 hr at 100°C, ASTM D130	1B	1B
Rust Test, ASTM D665B	Pass	Pass
Steel Pin Corrosion (24 hours 60°C) Synthetic Sea Water ISO 7120B	Pass	Pass
FAG FE-8 Roller Bearing Test, DIN 51819-3 Roller Weight Loss (mg)	1.0	1.0
FZG Pass Stage, ASTM D5182	> 12	> 12
FZG Micropitting, Failure Stage, FVA 54	10/High	10/High

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