MEROPA® ELITESYN™ XM ISOCLEAN® CERTIFIED LUBRICANT

150, 220, 320, 460, 680

PRODUCT DESCRIPTION

Meropa® EliteSyn™ XM ISOCLEAN® Certified Lubricants are premium, high-performance synthetic gear oils, offering 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. 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 EliteSyn XM 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.
- **Maximum efficiency** - advanced additive technology, resulting in less power consumption that provides the opportunity for increased energy, equipment and productivity efficiencies.
- **Reduced operating temperatures** - synthetic base oils provide a lower coefficient of friction and can lower gearbox operating temperatures.
- **Long lubricant life** - very high oxidation resistance promotes long drain intervals.
- **Wide temperature range** - low cold weather and high temperature protection that allows equipment operating temperature range from -30°C to 140°C, a far wider range than conventional gear oils.
- **Provides micropitting resistance** - Delivers maximum micropitting and wear protection with reduced maintenance and increased system uptime.

FEATURES

Meropa EliteSyn XM ISOCLEAN Certified Lubricants are formulated to be our ultimate offering that meets or exceeds industry performance standards. They enable the equipment manufacturers desire for efficiency improvements in designing gearboxes that are smaller, lighter and more energy efficient.

The additives in Meropa EliteSyn XM ISOCLEAN Certified Lubricants are compatible with paint coatings and with multiple types of seals to minimize the possibility of leaking seals and paint blistering on the inside of the gearbox. Competitor products with overaggressive chemistries may attack paint coatings and cause filter plugging.

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-45 ISOCLEAN

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APPLICATIONS

Meropa EliteSyn™ XM ISOCLEAN® Certified Lubricants can be applied in:

- 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
- Rexnord gear drives requiring a synthetic extreme pressure or synthetic micropitting resistant lubricant

CLAIMS AND SPECIFICATIONS

ISO Grade	150	220	320	460	680
AIST (formerly U.S. Steel) 224	M	M	M	M	M
ANSI/AGMA 9005-F16-AS	M	M	M	M	M
DIN 51517/3 CLP	M	M	M	M	M
David Brown S1.53.101(5E)	M	M	M	M	M
Fives Cincinnati	M P-77	M P-74	M P-59	M P-35	M P-34
Flender Rev. 17 A. Helical-Bevel-Planetary Gear Units	**A**	**A**	**A**	**A**	**A**
GE D50E35			M	M	M
Hitachi AC Final Drive Gear	M	M	M	M	M
ISO 12925-1 CKC	M	M	M	M	M
ISO 12925-1 CKD	M	M	M	M	M
Joy Mining Machinery		M TO-SMEP	M TO-SHEP		
Pekrun Werknorm N8053	**A**	**A**	**A**	**A**	**A**
Rexnord[a] Falk gear drive models: Class V, A, F, J, Planetgear Obsolete Falk gear drive models: Class D, G, Y, Link Belt Model "R"	**A**	**A**	**A**	**A**	**A**
Rexnord[a] Falk EP + MP resistance	**A**	**A**	**A**	**A**	**A**
SEW-Eurodrive Rev. 07 004 05 13 Helical-Bevel-Planetary Gear Units: X.e M1..N, ML..2, MC..Series Planetary Gear Units: P..2e, P..2, XP.., P-X.e, PPK.. Series	**A**	**A**	**A**	**A**	**A**
Sumitomo (Industrial gear units: Paramax and Hansen series) industrial gearbox series HP1, HP2, HPP, I4, P4, M4ACC, and M5CT	**A**	**A**	**A**	**A**	**A**
ZF		**A** TE-ML 27F	**A** TE-ML 27H	**A** TE-ML 27J	

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	150	220	320	460	680
Product Number		279010	279011	279012	279013	279014
SDS Number *U.S.* *Canada* *Mexico*		 50215 50216 50217	 50215 50216 50217	 50215 50216 50217	 50215 50216 50217	 50215 50216 50217
AGMA Grade		4 EP	5 EP	6 EP	7 EP	8 EP
API Gravity	ASTM D287	30.1	28.6	27.2	26.1	24.9
Density at 15°C, kg/L	ASTM D4052	0.8754	0.8836	0.8912	0.8975	0.9041
Viscosity, Kinematic cSt at 40°C cSt at 100°C	ASTM D445	 150 20.6	 220 27.5	 320 36.2	 460 47.2	 680 62.3
Viscosity Index	ASTM D2270	160	160	160	160	160
Flash Point, °C(°F)	ASTM D92	237(459)	239(462)	242(468)	243(469)	244(471)
Pour Point, °C(°F)	ASTM D5950	-36(-33)	-36(-33)	-36(-33)	-36(-33)	-30(-22)
Foam Test, Seq. II Tendency, mL Stability, mL	ASTM D892	 50 max 0	 50 max 0	 50 max 0	 50 max 0	 50 max 0
Water Separation, Minutes to 0 mL emulsion	ASTM D1401	15	15	20	5	5
Copper Corrosion 3h @ 100°C	ASTM D130	1b	1b	1b	1b	1b
Rust Test	ASTM D665A ASTM D665B	Pass Pass	Pass Pass	Pass Pass	Pass Pass	Pass Pass
Timken OK Load, lb	ASTM D2782	>100	>100	>100	>100	>100
Four-Ball Weld, Weld Point, kg Load Wear Index	ASTM D2783	 250 58	 250[a] 58[a]	 250[a] 58[a]	 250[a] 58[a]	 250[a] 58[a]
FZG Scuffing (A/8.3/90) Fail Stage	ASTM D5182	 > 14	 > 14	 > 14	 > 14[a]	 > 14[a]
FZG Micropitting, Fail Stage	FVA 54	10/High	10/High	10/High	10/High	10/High
FAG FE-8 Bearing Test, Roller Weight Loss, mg	DIN 51819-3	 Pass	 Pass	 Pass	 Pass	 Pass

a Read-Across data: For this testing, the lower ISO grades result(s) are typically more severe than higher ISO grades; therefore, data is read across from the lower grades.

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

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