Meropa XL

High performance extreme pressure gear oils

Product description

Meropa® XL are high performance extreme pressure gear oils, designed for industrial and marine gear systems where extreme load and shock load protection is required. They help provide corrosion and wear protection with high load carrying capacity and contribute to robust micropitting wear protection.

Meropa XL gear oils are designed for optimal performance and long service life in today's smaller, lighter and more energy efficient industrial gear systems, and help protect yellow metals, many sealants, and internal paint coatings from corrosion.

Customer benefits

- Designed for thermal and oxidative stability, helping reduce deposit formation, oil degradation and extend oil life and drain intervals
- Contributes to dependable rust and corrosion protection with good water separation performance over long lubricant service periods
- Promotes extended gear and bearing life in enclosed gear drives operating under extreme load, speed, and temperature conditions
- Advanced design helps provide good wear protection with reliable keep-clean performance helping increase system uptime
- Formulated to help provide micropitting protection, contributing to the reduction of system maintenance downtime and service costs

Product highlights

- **Designed for extended drain intervals**
- **Contributes to rust and corrosion protection**
- **Promotes gear and bearing life**
- **Advanced keep-clean performance**
- **Formulated to help provide micropitting protection**

Selected performance standards include

AGMA	AIST
David Brown	DIN
Fives Cincinnati	Flender
GB	ISO
Joy Mining Machinery	Rexnord
Reintjes	SMS Group
Sumitomo	ZF

Applications

Meropa XL gear oils are recommended for:

- Industrial enclosed gearings where an AGMA EP lubricant is specified
- Industrial enclosed gearings 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

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; roller mills
- Crushers, shakers, hoists, conveyors, machine tools
- Marine equipment

Product maintenance and handling

Meropa XL has a typical sulphur-phosphorus odour characteristic of industrial gear oils. A ventilated environment is recommended during use.

Avoid any spillage of used and unused product to the environment. Product residue and packages or containers should be disposed of in dedicated collection points.

Approvals, performance and suitable for use

ISO Grade	68	100	150	220	320	460	680
AIST (formerly U.S. Steel) 224	M	M	M	M	M	M	M
ANSI/AGMA 9005-F16-AS	M	M	M	M	M	M	M
DIN 51517/3 CLP	M	M	M	M	M	M	M
David Brown S1.53.101(5E)	M	M	M	M	M	M	M
Fives Cincinnati			M P-77	M P-74	M P-59	M P-35	M P-34
Flender Gear Units, Rev. 16		**A**	**A**	**A**	**A**	**A**	**A**
Grob Lubricant Chart		**A**	**A**	**A**	**A**	**A**	
ISO 12925-1 CKC	M	M	M	M	M	M	M
ISO 12925-1 CKD	M	M	M	M	M	M	M
ISO 12925-1 CKSMP	M	M	M	M	M	M	M
ISO 12925-1 CKE	M	M	M	M	M	M	M
Joy Mining Machinery				M TO-MEP	M TO-HEP	M TO-HD	
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**	**A**
Pekrun Lubricant chart		**A**	**A**	**A**	**A**	**A**	**A**
Waldrich Siegen	**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**		
ZF TE-ML 04H		**A**	**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

Typical test data

Test	Test Methods	Results			
Viscosity Grade		**68**	**100**	**150**	**220**
Typical Shelf Life: 60 months from date of filling indicated on the product label*					
AGMA code		2EP	3EP	4EP	5EP
Base Oil Type		Semi-synthetic			
Kinematic viscosity at 40°C, mm²/s	ASTM D445	68	100	150	220
Kinematic viscosity at 100°C, mm²/s	ASTM D445	9.1	12.1	16.2	22.3
VI	ASTM D2270	110	112	115	120
Density at 15°C, kg/l	ASTM D4052	0.867	0.8674	0.856	0.885
API Density	ASTM D4052	31.7	31.7	29.7	28.4
Pour Point, °C	ASTM D97	-26	-36	-36	-36
Flash Point, °C	ASTM D92	224	250	250	248
FZG A/8.3/90, stage	DIN 51 354/2	-	>12	>12	>12
FZG Micropitting, Failure stage	FVA 54	-	10/High	10/High	10/High
FAG FE-8 (D7.5-80/80-80) Roller Weight Loss, mg	DIN 51819-3	3	1.0	1.0	1.0
Demulsibility at 82°C, ml 30 max	ASTM D1401	Pass	Pass	Pass	Pass
Rust A	ASTM D665A	Pass	Pass	Pass	Pass
Rust B	ASTM D665B	Pass	Pass	Pass	Pass
Steel Pin Corrosion, 24hrs at 60°C, synth. Salt water	ISO 7120B	Pass	Pass	Pass	Pass
Copper corrosion 3hrs at 100°C	ASTM D130	1B	1B	1B	1B
Foam Seq I, ml	ASTM D892	50/0	50/0	50/0	50/0
Foam Seq II, ml	ASTM D892	50/0	50/0	50/0	50/0
Foam Seq III, ml	ASTM D892	50/0	50/0	50/0	50/0

* Typical Shelf Life: (a) if stored under normal conditions and (b) can be extended after re-testing.

The typical test data set out above does not constitute a specification. It is indicative only and can be affected by allowable production tolerances. Chevron may modify this test data. Modified data will supersede all previous data, so please ensure you refer to the latest version of this Product Data Sheet (PDS).

Typical test data

Test	Test Methods	Results		
Viscosity Grade		**320**	**460**	**680**
Typical Shelf Life: 60 months from date of filling indicated on the product label*				
AGMA code		6EP	7EP	8EP
Base Oil Type			Semi-Synthetic	
Kinematic viscosity at 40°C, mm²/s	ASTM D445	320	460	680
Kinematic viscosity at 100°C, mm²/s	ASTM D445	29.7	37.3	50.0
VI	ASTM D2270	124	127	127
Density at 15°C, kg/l	ASTM D4052	0.878	0.897	0.88
API Density	ASTM D4052	27.3	26.3	28.9
Pour Point, °C	ASTM D97	-36	-27	-27
Flash Point, °C	ASTM D92	248	247	238
FZG A/8.3/90, stage	DIN 51 354/2	>12	>12	>12
FZG Micropitting, Failure stage	FVA 54	10/High	10/High	10/High
FAG FE-8 (D7.5-80/80-80) Roller Weight Loss, mg	DIN 51819-3	1.0	1.0	1.0
Demulsibility at 82°C, ml 30 max	ASTM D1401	Pass	Pass	Pass
Rust A	ASTM D665A	Pass	Pass	Pass
Rust B	ASTM D665B	Pass	Pass	Pass
Steel Pin Corrosion, 24hrs at 60°C, synth. Salt water	ISO 7120B	Pass	Pass	Pass
Copper corrosion 3hrs at 100°C	ASTM D130	1B	1B	1B
Foam Seq I, ml	ASTM D892	50/0	50/0	50/0
Foam Seq II, ml	ASTM D892	50/0	50/0	50/0
Foam Seq III, ml	ASTM D892	50/0	50/0	50/0

* Typical Shelf Life: (a) if stored under normal conditions and (b) can be extended after re-testing.

The typical test data set out above does not constitute a specification. It is indicative only and can be affected by allowable production tolerances. Chevron may modify this test data. Modified data will supersede all previous data, so please ensure you refer to the latest version of this Product Data Sheet (PDS).

Disclaimer: Data provided in this Product Data Sheet (PDS) is based on standard tests under laboratory conditions and is indicative only. This product should not be used for any purpose other than those expressly set out in this PDS. The user has sole responsibility for verifying that this product is suitable for the user's intended application. Neither Chevron nor its subsidiaries (i) make any warranty or representation as to the accuracy or completeness of this PDS; and/or (ii) accept liability for any loss or damage suffered as a result of the use of this product other than in accordance with the terms of this PDS.

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.

When disposing of used product, take care to protect the environment and follow local legislation.

Safety Data Sheets (SDS's) are available for all Chevron products. If you require a SDS or any further information regarding a Chevron product, please contact your local sales office or see www.texacolubricants.com.

A **Chevron** company product