Meropa

Premium performance extreme pressure gear lubricants

Product description

Meropa® gear lubricants are premium quality extreme pressure industrial gear oils formulated to help provide good load carrying capacity, water demulsibility, oxidation stability and corrosion protection.

Customer benefits

- High thermal stability extreme pressure (EP) system is designed to help maintain clean gear and bearing surfaces, helping to minimise deposit formation
- High oxidation stability helps reduce in-service viscosity increases, which can optimise energy efficiency
- Effective wear and corrosion inhibiting formulation is designed to help extend equipment life and reduce maintenance downtime
- Offers extended drain intervals through reduced oxidation even in extreme pressure applications

Product highlights

- **Helps minimise deposit formation through high thermal stability even under extreme pressures**
- **Designed to offer optimised energy efficiency thanks to high oxidation stability**
- **Formulated to reduce wear and corrosion to extend equipment uptime**
- **Helps contribute to extended drain intervals**

Selected performance standards include

AGMA	AIST
David Brown	DIN
Fives Cincinnati	Grob Lubricant Chart
ISO	Joy Mining Machinery
Rexnord Falk	SMS Group
Sumitomo	Paramax
ZF	

Applications

Meropa gear lubricants are recommended for:

- industrial enclosed gearing where an AGMA extreme pressure lubricant is specified.
- bath, splash, circulating, or spray mist lubrication as applicable to the proper viscosity grade.
- general industrial plant lubrication where the performance properties of an AGMA extreme pressure lubricant is required.
- Rexnord gear drives requiring a mineral-based extreme pressure lubricant.

Product maintenance and handling

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

Avoid any spillage of used and unused product to the environment.

Product residue and package/container should be disposed of in dedicated collection points.

Approvals, performance and suitable for use

ISO Grade	68	100	150	220	320	460	680	1000
AIST (formerly US Steel) 224	M	M	M	M	M	M	M	
ANSI/AGMA 9005-F16-AS	M	M	M	M	M	M	M	M
David Brown S1.53.101(5E)	M	M	M	M	M	M	M	M
DIN 51517/3-CLP	M	M	M	M	M	M	M	M
Fives Cincinnati			M P-77	M P-74	M P-59	M P-35	M P-34	M P-78
Grob Lubricant Chart	A	A	A	A	A	A	A	A
ISO 12925-1 CKC	M	M	M	M	M	M	M	M
ISO 12925-1 CKD	M	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: 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	A				
ZF TE-ML		**04H** A	**04H** A	**04F A**				

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

Always confirm that the product selected is consistent with the original equipment manufacturers (OEM) recommendation for the equipment operating conditions and customer's maintenance practices.

A: Approved

M: Performance – Meets or exceeds requirements.

Typical test data

Test	Test Methods	Results				
Viscosity Grade		**68**	**100**	**150**	**220**	**320**
Typical Shelf Life: 60 months from date of filling indicated on the product label*						
AGMA Grade		2 EP	3 EP	4 EP	5 EP	6 EP
Density at 15°C, kg/L	ASTM D4052	0.8838	0.8849	0.8861	0.8872	0.8863
Viscosity, Kinematic cSt at 40°C cSt at 100°C	ASTM D445	68 8.8	100 11.4	150 15.0	220 19.3	320 24.5
Viscosity Index	ASTM D2270	101	100	100	99	98
Flash Point, °C	ASTM D92	236	250	264	278	278
Pour Point, °C	ASTM D97	-32	-29	-26	-23	-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 3 mL emulsion	ASTM D1401	25	20	20	20	25
Copper Corrosion 3 h @ 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
4 Ball Weld Weld Point, kg Load Wear Index	ASTM D2783	250 45.9	250 >45	250 >45	250 52.9	250 >45
FE-8 Bearing Test Roller weight loss, mg	DIN51819-3	3.7	3.7**	3.7**	2.1	2.1#
FZG Scuff Test, A/8.3/90°C, Fail Stage	ASTM D5182	>14	>14	>14	>14	>14
FZG Pass Stage	ASTM D5182	12	12	12	12	12

* 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		**460**	**680**	**1000**
Typical Shelf Life: 60 months from date of filling indicated on the product label*				
AGMA Grade		7 EP	8 EP	8A EP
Density at 15°C, kg/L	ASTM D4052	0.8838	0.8849	0.8861
Viscosity, Kinematic cSt at 40°C cSt at 100°C	ASTM D445	460 31.2	680 41.4	1000 55.3
Viscosity Index	ASTM D2270	98	101	106
Flash Point, °C	ASTM D92	279	279	273
Pour Point, °C	ASTM D97	-21	-21	-22
Foam Test, Seq. II Tendency, mL Stability, mL	ASTM D892	50 max 0	50 max 0	50 max 0
Water Separation Minutes to 3 mL emulsion	ASTM D1401	30	40	20
Copper Corrosion 3 h @ 100°C	ASTM D130	1B	1B	1B
Rust Test	ASTM D665A ASTM D665B	Pass Pass	Pass Pass	Pass Pass
4 Ball Weld Weld Point, kg Load Wear Index	ASTM D2783	250 >45	250 51.4	250* 51.4*
FE-8 Bearing Test Roller weight loss, mg	DIN51819-3	2.1#	2.1#	2.1#
FZG Scuff Test, A/8.3/90°C, Fail Stage	ASTM D5182	>14	>14	>14
FZG Pass Stage	ASTM D5182	12	>12	>12

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

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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.

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