Meropa EliteSyn XM

Premium performance synthetic gear lubricants

Product description

Meropa® EliteSyn XM are premium performance synthetic gear oils, designed for long life micro-pitting wear protection in industrial and marine gear systems where extreme load and shock load protection is required.

Meropa EliteSyn XM oils are formulated to offer optimum efficiency at reduced operating temperatures in smaller, lighter and more energy efficient gearboxes. This product protects internal/external paint and is compatible with many seal types, helping minimise leaks.

Customer benefits

- Advanced technology additives promote performance through lower energy consumption and equipment production output efficiencies
- Developed with a synthetic base oil formulation designed to lower coefficient of friction and help reduce gearbox temperatures
- Formulated for high oxidation resistance, with long drain intervals and long, reliable lubricant service life
- Designed for reliable equipment protection and performance across a wide ambient temperature range
- Wide equipment operating temperature window ranging from -30°C to +140°C
- Offers robust wear and micro-pitting resistance and contributes to reducing maintenance costs and system downtime

Product highlights

- **Developed to reduce gearbox temperatures**
- **Promotes lower energy consumption**
- **Formulated for high oxidation resistance**
- **Designed for use across wide ambient temperatures**
- **Operating temperature range from -30°C to +140°C**
- **Offers robust wear and micro-pitting resistance**

Selected specification standards include:

ANSI/AGMA	David Brown
DIN	Hansen
Hitachi	ISO
Siemens	US Steel

Applications

Meropa EliteSyn XM gear oils are recommended for:

- 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 without multi-disk Clutch.

Approvals, performance and suitable for use

Approvals

- Flender Rev 16.1: Table A-g partially synthetic standard oils for FLENDER helical, bevel-helical, planetary gear boxes and 'Marine gear units without multi-disk clutches
- Hansen industrial gear units, series HP1, HP2, HPP, P4 and M4ACC
- Sumitomo Drive Technologies , paramax 9000
- ZF TE-ML 04H
- 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]: Consult with Rexnord/Falk Gear for applications: worm gear drives, high-speed drives, open gearing or any custom gear drive.

Performance

Operating temperature: -30°C up to +140°C

- Din 51517-3 CLP
- ANSI/AGMA 9005-F16-AS
- ISO 12925-1 CKC, CKD,CKSMP,CKE
- AIST (formerly US Steel) 224
- David Brown S1.53.101 (SE)
- Hitachi AC Final Drive Gear (ISO 460 and ISO 680)
- Joy Mining Machinery : TO-SMEP (ISO 220, 320)
- GE D50E35 (ISO 320,460, 680)

Typical test data

Test	Test Methods	Results	
Viscosity Grade		**150**	**220**
Shelf Life: 60 months from date of filling indicated on the product label			
Kinematic Viscosity at 40°C, mm²/s	ASTM D445	151	223
Kinematic Viscosity at 100°C, mm²/s	ASTM D445	20.6	27.7
VI	ASTM D2270	159	161
Density at 15°C, kg/l	ASTM D4052	0.8754	0.8836
Flash Point, COC, °C	ASTM D92	224	224
Pour Point, °C	ASTM D2270	-39	-39
Rust Test A	ASTM D665A	Pass	Pass
Rust Test B	ASTM D665A	Pass	Pass
Four Ball EP, Weld, kgf	ASTM D2783	315	315
Timken OK Load, lb	ASTM D2509	>100	>100
FZG, Failure Load Stage (A/8.3/90)	DIN 51354	>14	>14
FAG FE-8 Roller Bearing test Roller Weight Loss, mg	DIN 51819/3	1	1
FZG Micropitting Failure stage	FVA 54	10/high	10/high

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**
Shelf Life: 60 months from date of filling indicated on the product label				
Kinematic Viscosity at 40°C, mm²/s	ASTM D445	320	464	688
Kinematic Viscosity at 100°C, mm²/s	ASTM D445	37.0	48.8	65.5
VI	ASTM D2270	165	165	167
Density at 15°C, kg/l	ASTM D4052	0.8912	0.8975	0.9041
Flash Point, COC, °C	ASTM D92	224	224	224
Pour Point, °C	ASTM D2270	-39	-36	-33
Rust Test A	ASTM D665A	Pass	Pass	Pass
Rust Test B	ASTM D665A	Pass	Pass	Pass
Four Ball EP, Weld, kgf	ASTM D2783	315	315	315
Timken OK Load, lb	ASTM D2509	>100	>100	>100
FZG, Failure Load Stage (A/8.3/90)	DIN 51354	>14	>14	>14
FAG FE-8 Roller Bearing test Roller Weight Loss, mg	DIN 51819/3	1	1	1
FZG Micropitting Failure stage	FVA 54	10/high	10/high	10/high

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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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