# 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 offer corrosion and wear protection with high load carrying capacity and 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 offer corrosion protection to yellow metals, many sealants, and internal paint coatings.

### Customer benefits

- Designed for thermal and oxidative stability, helping reduce deposit formation, oil degradation and extend oil life and drain intervals
- Offers dependable rust and corrosion protection with robust 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 offers good wear protection with reliable keep-clean performance helping increase system uptime
- Formulated for micropitting and wear protection, helping reduce system maintenance downtime and service costs

### Product highlights

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

**Selected performance standards include**

| | |
|---|---|
| AGMA 9005-F16 | AIST 224 |
| David Brown | DIN 51 517/3 : CLP |
| Fives Cincinnati | Flender |
| GB5903-2011 (CKD) | ISO 12925-1<br>(CKC, CKD, CKSMP, CKE) |
| 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

## Approvals, performance and suitable for use

**Approvals**

- Specification of oil approvals for Flender gear units, Rev. 15: for Helical-, Bevel- and Planetary gear units (ISO VG 150 – 460)
- Sumitomo Drive Technologies – Paramax Gear Boxes (ISO 68, 150, 220, 320)
- ZF – TE-ML 04H (ISO 100, 150 and 220)
- Reintjes BV 1597/3; BV1917/4; BV2060/3, BV2030/4
- Rexnord[a] Falk gear drive models: V, A, F, J, Planetgear Obsolete Falk gear drive models:Class D, G, Y, Link Belt Model “R”

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

**Performance**

- DIN 51 517/3 : CLP
- AIST 224
- ISO 12925-1 (CKC, CKD, CKSMP, CKE)
- AGMA 9005-F16
- GB5903-2011 (CKD)
- David Brown S1.101E (5E)
- Joy Mining Machinery TO-MEP(ISO 220, 320) and TO-HD (ISO 460)
- Fives Cincinnati P-77 (ISO 150) P-74 (ISO 220) P-59 (ISO 320) P-35 (ISO 460) P-34 (ISO 680) P-78 (ISO 1000)
- SMS Group SN 180-2
- Grob

**Suitable for use**

- Pekrun

## 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.

## 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