# Meropa® MG

## High performance extreme pressure gear lubricant

### Product description

Meropa MG is a range of high performance extreme pressure (EP) gear oils suitable for many types of industrial and marine geared and non-geared lubrication systems. Meropa MG gear oils are designed for marine transmissions with wet clutches, and applications which require an Ortlinghaus approval.

Meropa MG series is formulated from premium base oils with very good load carrying capacity, micro-pitting wear protection, water demulsibility, oxidation stability, and corrosion protection.

### Customer benefits

- Offers durable wear and micropitting protection, particularly in enclosed gear drives operating under extreme load, speed and temperature conditions, helping to increase uptime
- High thermal and oxidation stability to help minimise deposit formation and extend gear and bearing life over long drain intervals
- Formulated to provide rust and corrosion protection over long service periods
- Advanced additive technology helps prevent varnish and sludge, keeping components clean and contributing to longer equipment life
- Designed to provide durable water separation, demulsibility and corrosion protection to help optimise operations where water contamination is unavoidable

### Product highlights

- **Offers durable wear and micropitting protection**
- **High thermal and oxidation stability**
- **Formulated to provide rust and corrosion protection**
- **Helps prevent varnish and sludge**
- **Designed to provide durable water separation and demulsibility**

**Selected specification standards include:**

| | |
|---|---|
| AGMA | Brunvoll |
| DIN | Five Cincinnati |
| Flender | ISO |
| Ortlinghaus | Reintjes |
| Renk Augsburg | Renk Rheine |
| US Steel | |

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.

## Applications

- Meropa MG gear oils are designed to ensure optimal performance in Renk, Reintjes, Brunvoll Volda AS and Flender/Siemens clutched gearboxes extensively used in Marine vessels. The advanced formulation is balanced to provide extreme pressure protection, while providing protection against yellow metal corrosion. The robust chemistry is compatible with multiple types of sealant and paint coatings and helps to minimise the possibility of leaking seals and paint blistering on the inside of the gearbox. Meropa MG does not utilise overly aggressive chemistry thus reducing the risk of attack on paint coatings which can cause filter plugging.

Meropa MG gear oils are recommended for:

- Marine vessels using clutched gear boxes
- Industrial enclosed gearing where an AGMA EP lubricant is specified
- Industrial enclosed gearing 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
- Rolling mills
- Crushers
- Shakers
- Hoists
- Conveyors
- Machine tools
- Marine equipment

## Approvals, performance and recommendations

**Approvals**

- Ortlinghaus friction test (Clutch test)
- Renk Augsburg
- Renk Rheine
- Brunvoll
- Reintjes
- Flender

**Performance**

- AGMA 9005-F16 AS
- DIN 51517-3(CLP)
- ISO 6743-6 CKC (ISO-L-CKC)
- ISO 12925-1 (CKC/D)
- Five Cincinnati (ISO 100-220)
- US Steel 224

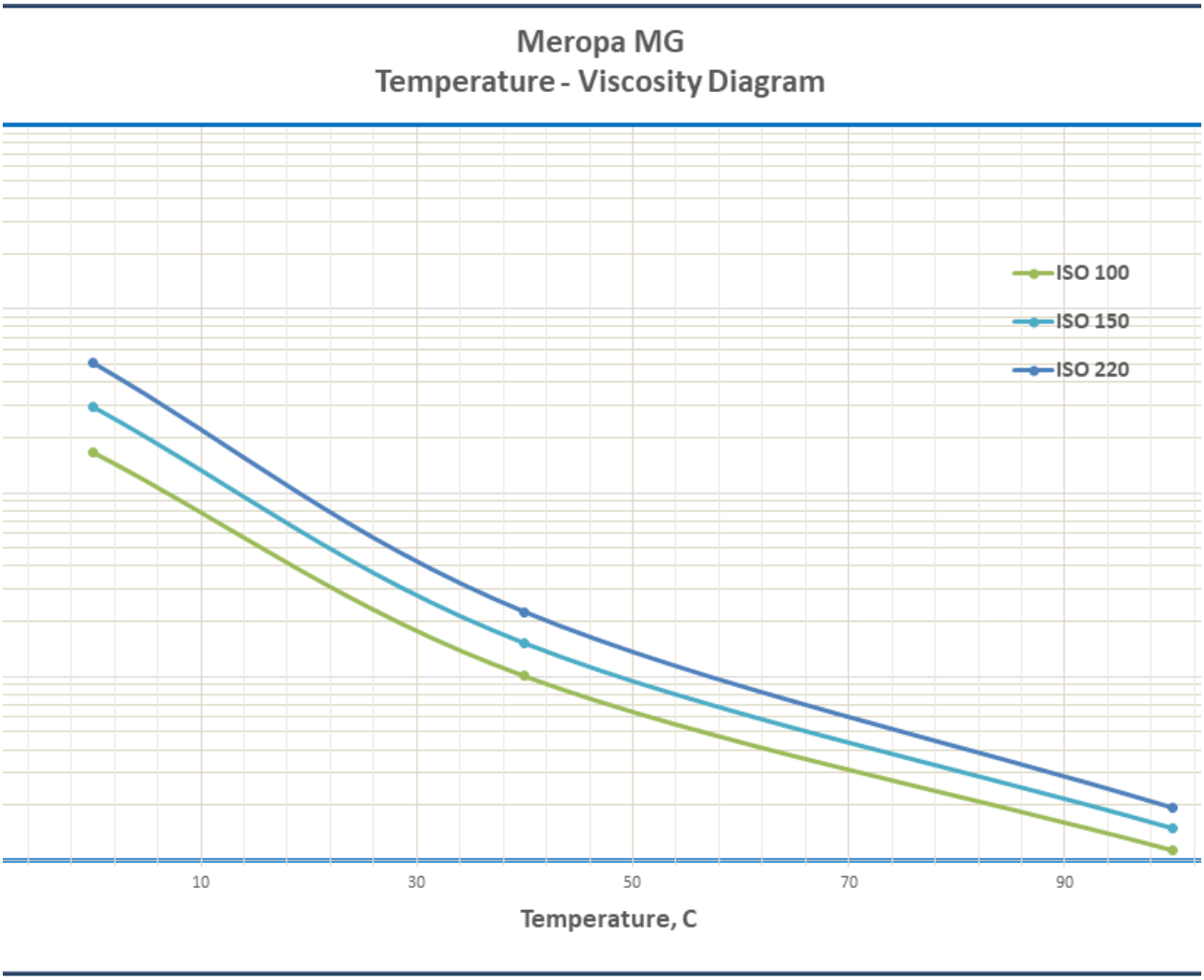
## Product maintenance and handling

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

## Typical test data

| Test | Test Methods | Results | | |
|---|---|---|---|---|
| **Viscosity Grade** | | **100** | **150** | **220** |
| **Shelf Life: 60 months from date of filling indicated on the product label** | | | | |
| Base Oil Type | — | Mineral | Mineral | Mineral |
| AGMA grade | — | 3EP | 4EP | 5EP |
| Kinematic viscosity at 40°C, mm²/s | ASTM D445 | 100 | 150 | 220 |
| Kinematic viscosity at 100°C, mm²/s | ASTM D445 | 11.3 | 14.8 | 19.0 |
| VI | ASTM D2270 | 99 | 98 | 97 |
| Density at 15°C, kg/l | ASTM D4052 | | | |
| Pour Point, °C | ASTM D97 | -24 | -24 | -27 |
| Flash Point, °C | ASTM D92 | 234 | 254 | 268 |
| 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 |
| Copper corrosion, 3hrs/100°C | ASTM D130 | 1B | 1B | 1B |
| Rust Test, B | ASTM D665B | Pass | Pass | Pass |
| FAG FE-8 (D7.5-80/80-80), Roller Weight Loss, (mg) | DIN 51819-3 | 1.0 | 1.0 | 1.0 |
| 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 |

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.




Disclaimer Chevron accepts no liability for any loss or damage suffered as a result of using this product for any application other than applications specifically stated in any Product Data Sheet's.
Health, safety, storage and environmental Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS's are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

**A Chevron company product**