

FAMILY OF PRODUCTS

MEROPA® GEAR OILS



Gear lubricants trusted worldwide.

Take Advantage of our Formulating Experience with Meropa® gear oils.



We understand the Maintenance Value Drivers in gear lubrication.

Let us help your organization develop a personalized lubrication plan to help reduce unscheduled down time, optimize production time and in turn, maximize profitability.

We understand the maintenance value drivers in gear lubrication. For most operations:

- Downtime directly impacts production and revenue
- Unscheduled downtime can be complex
- Lubrication preventative maintenance tasks are difficult to manage due to manpower constraints
- Safety during repair and downtime has potential to be compromised

Overhaul costs are expensive—maximizing the life of equipment components and in turn, production time is significant to lowering the Total Cost of Ownership (TCO).

A **Chevron** company product

Chevron Meropa® Synthetic EP

Our premium performance, Synthetic PAO, Extreme Pressure gear lubricant is recommended for many types of enclosed industrial gearboxes, requiring EP, especially those running continuously at temperatures up to 225°F (107°C) or exposed to very cold temperatures as low as -50°F (-46°C). They are additionally recommended for those applicable gearboxes under severe service conditions, such as heavy loads or low speeds. These products also provide excellent protection for bearings operating under similar conditions and where EP is required.

Chevron Meropa Synthetic EP possesses very high shear stability even under heavily loaded, high speed conditions, in industrial gears. The unique property of the synthetic base oil is a low traction coefficient, resulting in improved gear efficiency, energy savings, less friction, less wear and consequently providing lower operating temperatures compared to conventional mineral oil products. Meropa Synthetic EP can provide opportunity to extend drain intervals from the synthetic hydrocarbon base oil's outstanding oxidation and thermal stability. It is compatible with most mineral oil based industrial EP/R&O gear lubricants, as well as with most PAO based synthetic industrial EP/R&O gear lubricants. Chevron Meropa Synthetic EP is available in ISO 150, 220, 320, 460, 680 viscosities.

Chevron Meropa Synthetic EP meets the requirements of:

- **AGMA** 9005 and qualify as AGMA EP Gear lubricants
- **DIN** 51517-3 (CLP)
- **Joy** TO-SMEP (ISO 220) and TO-SHEP (ISO 320)
- **U.S. Steel** 224
- **MAG Cincinnati, Cincinnati Machine** P-35 (ISO 460), P-59 (ISO 320), P-74 (ISO 220), P-77 (ISO 150)

Chevron Meropa Synthetic WM ISO 320

Our premium performance, Synthetic PAO, Extreme Pressure gear lubricant is formulated for wind turbines and heavily loaded enclosed gear drives in industrial applications. The extreme pressure additive package and synthetic base oil combine to maximize wear resistance, including micropitting, which is particularly important for remote, hard to get to, elevated gear boxes in wind mills. The formulation additionally provides both high and low temperature protection by maintaining viscosity parameters and is non-corrosive to steel, copper, bronze, babbitt and nickel cadmium. It has a high level of rust protection and oxidation stability rounding out its capability to handle severe application and potential for extended drains. Chevron Meropa Synthetic WM ISO 320 is successfully used for wind turbine applications and suitable for use in Flender gear units.

Chevron Meropa Synthetic WM 320 is also recommended for a variety of industrial gears, including spur, bevel, helical, worm and industrial hypoid gear cases on mobile contractor type equipment. It is recommended for open pit and underground mining equipment, cement mills, ball mills, rolling mills, crushers, shakers, hoists, conveyors, kilns, winches, machine tools, skip lines and marine equipment.

Meropa Synthetic WM 320 is approved by **Moventas** for use in wind turbine gearboxes.

It meets the requirements of:

- **ANSI/AGMA** 9005-E02 EP
- **David Brown** Textron Power Transmission
- **DIN** 51517-3 CLP
- **U.S. Steel** 224

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.

Chevron Meropa® Ultra Gear Lubricant

Our premium, top of the line, mineral, extreme pressure gear oil is designed for many types of industrial bearings and gears where loads and shock loading are high. Chevron Meropa Ultra Gear Lubricants are formulated with a unique extreme pressure additive using an inorganic borate compound which provides film strength up to four times that of typical sulfur phosphorus, mineral based, gear oils. The combined base oil and unique additive package provide excellent anti-wear properties yielding exceptional gear protection even in the presence of small amounts of water. Less wear and friction typically reduce operating temperatures and can contribute to extending gear life and lubricant life. Meropa Ultra Gear Lubricant provides outstanding protection against oxidation, corrosion and rust.

Chevron Meropa Ultra Gear Lubricants are available in ISO 68, 150, 220, 320, 460, and 680 viscosities. They meet the requirements of:

- **ANSI/AGMA 9005-E02 EP**
- **U.S. Steel 224 (ISO 68-460)**

Chevron Meropa Ultra Gear Lubricants are additionally registered by **NSF** and are acceptable as lubricants where there is no possibility of food contact (H2), in and around food processing areas.

Chevron Meropa® XL

Our Premium, Extreme Pressure Industrial Gear oil that has Siemens MD (Flender) Rev. 13 approval. Siemens MD Rev. 13 is one of the world's highest standards in gear oil performance. Most notably, Rev. 13 differentiates and has higher requirements in the areas of micropitting, demulsibility, and seal compatibility standards. Consequently, Meropa XL is formulated with excellent foam control, excellent micropitting and wear protection, excellent demulsibility and excellent seal and paint compatibility.

Meropa XL means worldwide reliability. It is the gear lubricant you can depend on for consistency and exceptional performance, whether you have a single facility or a multi-national operation. Meropa XL gear lubricants are premium quality, extreme pressure, mineral gear oils. They are designed for a wide variety of industrial equipment especially in applications where overloading, wet conditions and high operating temperatures are encountered.

They are available in ISO 150, 220, 320, and 460 viscosities. Meropa XL is approved by Siemens MD (Flender), Revision 13. They meet the requirements of:

- **U.S. Steel 224**
- **DIN 51517-3 CLP**
- **AGMA 9005 –EO2 EP**
- **Fives Cincinnati**
- **David Brown**

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.

Meropa®

Meropa oils are high performance, multipurpose, extreme pressure gear lubricants designed for many types of industrial gear lubrication systems where there is high load or shock loading. The high thermal stability EP system helps maintain clean gear and bearing surfaces, minimizing deposits which interfere with effective lubrication. High oxidation stability limits in-service viscosity increases, which can lead to energy losses.

Good water separation and effective rust inhibitors protect surfaces against rust and corrosion both contributing to improved equipment life. Meropa oils are recommended for industrial enclosed gearing where an AGMA extreme pressure lubricant is specified. It is recommended for bath, splash, circulating, or spray mist lubrication as applicable to the appropriate viscosity grade. Meropa oils are available in viscosities from ISO 68 through 1500.

Meropa oils meet the requirements of:

- **AGMA** EP 9005-E02
- **DIN** 51517-3 CLP
- **MAG Cincinnati, Cincinnati Machine**
- **U.S. Steel** 224 (ISO 220, 320, 460, 680)
- Meropa oils, (ISO 68 through 460) are suitable for use in **Bijur** oil application equipment

Meropa® Aqua Gear EP

Our extreme pressure gear oil designed to emulsify water. They are designed to meet the performance requirements of Joy Mining Machinery specifications for enclosed gear sets used in longwall mining equipment, or other machinery of appropriate viscosity requiring an emulsifiable, extreme pressure gear oil. Meropa Aqua Gear EP oils have high film strength and load carrying capacity. Gear teeth are protected from wear, surface distress and premature failure. They provide maximum thermal and oxidation stability to help prevent degradation under severe operating conditions, contributing to long lubricant life. They are designed to form a stable emulsion with contaminating water. They additionally have cold weather reliability through the use of a pour point depressant.

Chevron recommends Meropa Aqua Gear EP for use in Joy Mining Machinery calling for emulsifiable, extreme pressure gear oils. In addition, they can be used in gearboxes of other mining equipment and construction equipment operating in contaminated, wet environments. Meropa Aqua Gear EP is available in viscosity grades ISO 220, 320, and 460.

Meropa Aqua Gear EP oils meet the specifications of:

- **Joy** TO-MEP (ISO 220), TO-HEP (ISO 320) and TO-HD (ISO 460)

For more information, go to www.chevronlubricants.com