



# Meropa<sup>®</sup> Synthetic EP

## High performance industrial EP gear and circulating oil

### Product description

Meropa Synthetic EP is a high performance industrial extreme pressure (EP) gear and circulating oil, designed for a wide range of equipment working under severe heavy and/or shock loadings and at high operating temperatures.

Meropa Synthetic EP is formulated with polyalphaolefin and synthetic ester base fluids with additives designed to deliver robust EP performance, wear protection, thermal stability, oxidation resistance as well as corrosion and rust protection.

Meropa Synthetic EP is available in ISO VG 150, 220, 320, 460 and 680 grades.

### Customer benefits

- Designed for thermal and oxidation stability, gear and circulating oil system cleanliness and lower maintenance downtime and costs
- Durable EP additives offer reliable protection against bearing and gear surface wear, helping extend severe duty service life
- Dependable air and water separation characteristics help reduce surface wear caused by loss of lubricating oil film protection
- Compatibility with many conventional seal materials and mineral circulating oils, aids smooth switching of oil types
- Thermal and oxidation stability promotes longer service life under severe service than is possible with conventional mineral oils

### Product highlights

- **Designed for thermal and oxidation stability**
- **Helps extend severe duty service life**
- **Dependable air and water separation**
- **Compatible with many seals and oils**
- **Thermal and oxidation stability**

#### Selected specification standards include:

ANSI/AGMA	DIN
Hitachi	ISO
US Steel	

## Applications

- Meropa Synthetic EP is suitable for many types of gear system in mobile and stationary industrial equipment where an EP lubricant is specified, including spur, bevel and worm gears, plain and anti-friction bearings subjected to heavy-duty operating conditions.
- Meropa Synthetic EP is also suitable for circulating oil systems where an EP lubricant is required, and outdoor machinery exposed to wide ambient temperature conditions, such as crane, hoist and winch gearboxes, speed reducers, chain drives, sprockets and flexible couplings.
- These oils may also be used in bath, splash, circulating and spray lubrication systems.

## Approvals, performance and recommendations

### Approvals

- Hitachi AC Final Drive Gear (ISO 680)

### Performance

- ANSI/AGMA Standard 9005-F16
- DIN 51517 Part 3 CLP
- US Steel Specification No. 224
- ISO 12925-CKD

Typical test data						
Test	Test Methods	Results				
Viscosity Grade		150	220	320	460	680
<b>Shelf Life: 60 months from date of filling indicated on the product label.</b>						
Visc. Kinematic @40°C	ISO 3104	150	220	320	460	680
Visc. Kinematic @100°C	ISO 3104	18.8	26.1	35.2	46.5	62.5
Visc. Index	ISO 2909	150	154	159	163	168
Flash Point, COC, °C	ISO 2592	244	234	240	246	246
Pour point, °C	ISO 3016	-48	-48	-42	-39	-36
Density at 15 °C, Kg/l	ASTM D1298	0.850	0.853	0.855	0.856	
FZG Damaged Load, A/16.6/90	DIN 51354	>12	>12	>12	>12	>12
FZG Damaged Load, A/8.3/90	DIN 51354	>12	>12	>12	>12	>12

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).

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