



marine lubricants

# Meropa®



## Description

Meropa® lubricants are premium-quality gear lubricants that have been specially developed to meet the demanding load-carrying requirements of gear manufacturers. Meropa lubricants are manufactured from high-quality base oils and have low pour points. They contain an additive combination that enhances oiliness, extreme pressure, and anti-wear properties. Meropa lubricants have a high oxidation, thermal, and hydrolytic stability, good water-separating characteristics, good air release and anti-foam properties, which helps to protect against metal corrosion and rusting.

## Typical Characteristics

ISO Viscosity Grade	68	100	150	220	320	460	680
MPID	219506	219510	219515	219522	219532	219546	219568
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s	68.0	100.0	150.0	220.0	320.0	460.0	680.0
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s	8.8	11.4	14.9	19.2	24.3	30.0	36.5
Viscosity Index	100	100	100	100	100	100	95
Flash Point, °C	200	200	215	215	215	215	240
Pour point, °C	-15	-15	-15	-15	-15	-15	-10
Density, 15°C, Kg/l	0.88	0.88	0.89	0.89	0.90	0.90	0.90
FZG load stage, A/8.3/90	>12	>12	>12	>12	>12	>12	>12

## Recommended Applications

Meropa lubricants are recommended for a wide variety of industrial and mobile equipment. Typical applications include enclosed gear systems, chain drives, sprockets, plain and anti-friction bearings, slide guides, and flexible couplings. They are particularly recommended for enclosed gear drives and speed reducers, ranging from fractional kilowatt gear motors to large, high power units on metal rolling mills, cement mills, and mine hoists.

Meropa lubricants are also suitable for industrial hypoid-type gears and are also recommended for use in transmission gear cases and worm drive axles on automotive, construction and mining equipment. Additionally, they are suitable for bath, splash and circulation applications. Other specific applications for Meropa are in marine gearing such as main propulsion, centrifuges, and deck machinery including winches, windlasses, cranes, turning gears, pumps, elevators and rudder carriers.

## Meropa Is Approved For:

- ✓ **GROB**
- ✓ **SMS Group** SN 180-2 (ISO 100, 150, 220, 320, 460, 680)
- ✓ **ZF** TE ML 04H (ISO 100/150)
- ✓ **ZF** TE ML 04F (ISO 220)
- ✓ **SEW Eurodrive** (planetary gear ISO 150, 220, 320, 460 & 680)
- ✓ **Tanktek** (towing system ISO 220)
- ✓ **Börger Pumps** (ISO 68, 220)
- ✓ **Bremivi** (planetary gear ISO 150, 220 & 320)
- ✓ **VHI** (deck machinery ISO 150)
- ✓ **Mariner** (deck machinery ISO 150)



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### Meropa Meets The Requirements Of:

- ✓ **DIN** 51517/3 CLP (ISO 68, 100, 220, 320, 680)
- ✓ **US Steel** 224 (ISO 68, 100, 220, 320, 460, 680)
- ✓ **AGMA** 9005-E02-EP (ISO 68)
- ✓ **AGMA** 9005-E02-R&O (ISO 100, 220, 320, 460, 680)
- ✓ **Fives Cincinnati** P-63 (ISO 460), P-59 (ISO 320), P-63 (ISO 68), P-76 (ISO 100), P-74 (ISO 220), P-77 (ISO 150)
- ✓ **ISO** 12925-1 CKC/CKD (ISO 68, 100, 220, 320, 460, 680)
- ✓ **Zollern** (rope winch ISO 220)
- ✓ **Rehfuss** (ISO 100, 220 & 460)
- ✓ **Bremivi** (winches ISO 150)
- ✓ **ATEK** (bevel gear ISO 68, 100, 150, 220, 320, 460 & 680)
- ✓ **Graessner MS** (gear ISO 60, 100, 150 & 220)

### Meropa Is Suitable For Use In:

- ✓ **Thrusters and propulsion systems** ABB Azipod, Brunvoll, Kawasaki, KTE, Schottel, SKF Blohm & Voss, Thrustmaster, Wartsila Cedervall, Wartsila UK
- ✓ **Centrifuges** Alfa Laval, Mitsubishi Kakoki, Samgong, Gea Westfalia
- ✓ **Various cranes** ACTA, BLM, Danish Crane, DMC, MHI, Sekigahara, TTS, Wuhan, Zhenjiang Marine
- ✓ **Davits and winches** A-Tech, Brohl, Davit International, DMC, Fukushima, Hatecke, Hatlapa, IHI, Kawasaki, TTS, MHI, Ned Deck Marine, Samgong, Schat-Harding, Shin Myung, Zhenjiang Marine, Zollern, Rolls-Royce Marine (RRM)

### Performance Benefits

#### 1. Load-Carrying Capacity

Offers extremely high load-carrying capacity, has good anti-wear properties, and cushions shock loads.

#### 2. Thermal and Oxidation Stability

Intends to keep sludge formation and frequent cleaning in circulation systems to a minimum, thus often reducing expensive downtime. Recommended for continuous service for temperatures between 120–130°C.

#### 3. Hydrolytic Stability

Aims to prevent sludge formation when in contact with water and retains compounding level for prolonged periods of time even in the presence of water.

#### 4. Water Separation

Assures speedy separation of water in circulating systems.

#### 5. Non-Foaming Characteristics

Readily dissipates foam under the most unfavorable conditions, such as violent agitation in the gear case.

#### 6. Air Release Properties

Promotes fast release of entrained air bubbles which may be formed by frequently rotating gear components.

#### 7. Rust Preventing Properties

Helps to prevent the rusting of gears and bearings in the presence of water.

#### 8. Non-Corrosive to Copper and Copper Alloys

Aims to minimize wear-rates of copper alloys used in worm gears and bearings.



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