

Meropa[®] Synthetic EP

Synthetic Extreme Pressure Industrial Gear Oil



Product description

Meropa[®] Synthetic EP is a premium performance, synthetic EP gear oil and circulating oil designed for use in a wide range of industrial equipment operating under severe conditions, such as heavy and/or shock loading and elevated temperatures, where short service life with conventional lubricants can be expected.

Customer benefits and product features

Customer benefits

- **Thermally stable**
Excellent thermal and oxidation stability reduces deposit formation, maintaining a cleaner gear/circulating oil system.
- **Protects metal surfaces**
Special EP additive provides protection against wear of bearing and gear surfaces during heavy-duty operation. Effective rust and corrosion inhibitors protect all system components.
- **Proven performance**
Excellent air and water separation characteristics reduce the risk of surface wear caused by loss of lubricating oil film. Compatibility with many conventional seal materials and mineral-type circulating oils eliminates operational problems if changing oil types.

Product features

- Meropa Synthetic EP is formulated with a combination of poly-alpha-olefin and synthetic ester base fluids and selected additives to provide outstanding EP performance and wear protection, increased thermal/oxidation stability and protection against corrosion and rust.

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Applications

Can include:

- All types of gear systems 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.
- Circulating oil systems where an EP lubricant is required.
- Outdoor machinery exposed to wide ambient temperature conditions, such as crane, hoist and winch gearboxes.
- Speed reducers, chain drives, sprockets and flexible couplings.
- Bath, splash, circulating and spray lubrication systems.

Approvals, performance and recommendations

Meets the requirements:

- ANSI/AGMA Standard 9005-E02 EP
- DIN 51517 Part 3 CLP
- AIST No. 224 (US Steel Specification No. 224)
- Joy TO-SMEP (ISO 220) and TO-SHEP (ISO 320)
- Approved by Hitachi Construction Truck Manufacturing Ltd. for AC Final Drive Gear Oil (ISO 460 and ISO 680)

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Typical test data

MEROPA ELITESYN WS	TEST METHOD	RESULT				
ISO Grade		150	220	320	460	680
Product Code		530479	530480	530481	530482	530483
Flash Point, COC, °C	ASTM D92	238	238	238	240	242
Pour Point, °C	ASTM D97	-51	-45	-39	-36	-30
FZG, Fail Stage	ASTM D5182	>12	>12	>12	>12	>12
4 Ball EP Weld, kg	ASTM D2596	250	250	250	250	250
Kinematic Viscosity, mm ² /s @ 40°C mm ² /s @ 100°C	ASTM D445	143	209	304	437	646
	ASTM D445	19.9	26.9	35.8	47.0	63.0
Viscosity Index	ASTM D2270	162	164	165	166	168

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ENVIRONMENT, HEALTH and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit the [Product Information Center](#).

This Product Data Sheet (PDS) was produced for the Asia Pacific region based on the best available information at the time of issue. The specific information included may not directly reflect the market or conditions, and may vary. For the most up-to-date, country-specific information, please contact your local customer service center.

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