

Meropa® EliteSyn™ WL

Premium Performance Synthetic Industrial Gear Oil



Product description

Meropa® EliteSyn™ WL oils are premium high performance PAO (polyalpha olefin) synthetic gear oils designed for use in industrial gear boxes offering high efficiency, reduced operating temperatures, long lubricant life and excellent micropitting wear protection. They are designed to protect against extreme load and shock load conditions.

Customer benefits and product features

Customer benefits

- **Energy efficiency**
Advanced additive technology, resulting in less power consumption provides the opportunity for energy, equipment and productivity efficiencies.
- **Reduced operating temperatures**
PAO synthetic base oil technology provides a lower coefficient of friction and promotes lower gearbox operating temperatures when compared to mineral oil products.
- **Long lubricant life**
Very high oxidation resistance promotes long drain intervals.
- **Wide temperature range**
Extremely low cold weather and high temperature protection that allows equipment operating temperature ranges from -40°C to 140°C, a far wider range than conventional gear oils.
- **Provides micropitting resistance**
Delivers high level of micropitting and wear protection with reduced maintenance and increased system uptime.

Product features

Meropa EliteSyn WL gear oils are formulated to meet or exceed many industry performance standards, while delivering high efficiency improvements in modern gearboxes that are smaller, lighter and more energy efficient.

Besides offering robust wear protection, Meropa EliteSyn WL contains additives to protect paint coatings and provide compatibility with multiple types of seals to minimize the possibility of leaking seals and paint blistering on the inside of the gearbox. In comparison, products with overaggressive chemistries can attack the paint coatings and cause filter plugging and lubricant loss.

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Applications

Meropa EliteSyn WL gear oils are recommended for use in:

- Heavy duty industrial gearboxes operating under severe conditions such as high load, wide temperature variation including very low or high temperatures.
- Industrial enclosed gearing where an AGMA EP lubricant is specified, including marine gearboxes requiring an extreme pressure (EP) lubricant.
- Bath, splash, circulating, or spray mist lubrication as applicable to the proper viscosity grade.
- Wind turbine gearboxes requiring an extreme pressure lubricant.

Product approvals, performance and recommendations

Developed independently by Chevron to comply with the following performance standards and specifications:

MEROPA® ELITESYN WL	150	220	320	460	680
Flender Rev 16	A	A	A	A	A
General Electric Mining D50E35	A	A	A	A	A
ANSI/AGMA 9005-F16 Antiscuff	M	M	M	M	M
David Brown S1.53.101 (5E)	M	M	M	M	M
DIN 51517/3 CLP	M	M	M	M	M
AIST (US Steel) 224	M	M	M	M	M
ISO 12925-1 CKD	M	M	M	M	M

A: Approved

M: Meets the Requirements

Consult OEM representatives for independent verification, updates and recommendations.

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Typical test data

MEROPA® ELITESYN WL	TEST METHOD	RESULTS				
SAE Grade		150	220	320	460	680
Product Code		533297	533298	533296	533299	533295
AGMA Grade		4EP	5EP	6EP	7EP	8EP
Density @ 15°C, kg/L	ASTM D4052	0.856	0.859	0.861	0.863	0.864
Kinematic Viscosity, cSt @ 40°C	ASTM D445	145	223	323	441	680
Kinematic Viscosity, cSt @ 100°C	ASTM D445	19.3	26.9	34.6	46.8	64.6
Viscosity Index	ASTM D2270	151	155	152	164	166
Flash Point, °C	ASTM D92	226	234	245	268	237
Pour Point, °C	ASTM D97	-45	-45	-45	-42	-40
Rust Test	ASTM D665 A & B	Pass	Pass	Pass	Pass	Pass
Copper Corrosion, 3h @ 100°C	ASTM D130	1	1	1	1	1
Demulsibility @ 82°C, min	ASTM D1401	11	8.5	15	10	30
Four Ball LWI	ASTM D2783	64.4	56.1	54	54	54
Four Ball EP Weld, kg	ASTM D2783	250	250	250	250	250
FZG, Failure Load Stage, A/8.3/90		>12	>14	>14	>14	>14
FZG FE-8 Roller Bearing Test, mg	DIN 51819-3	4	4	4	4	4
FZG Micropitting, Failure Stage, FVA 54		10/High	10/High	10/High	10/High	10/High

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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.

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Chevron company product

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