

# Meropa® Elitesyn WS

Industrial Gear Oil



## Product description

**Meropa® EliteSyn WS** is a premium performance synthetic industrial gear lubricant range offering good performance under demanding operating conditions in a wide range of gear designs, including helical, bevel helical, planetary, worm gears, and marine gear units.

Meropa EliteSyn WS is formulated with water soluble polyalkylene glycols, and promotes robust micro-pitting resistance, extreme pressure (EP) performance and thermal stability with good corrosion protection.

With very low coefficients of friction of water soluble polyglycols, Meropa EliteSyn WS contributes to lower mechanical losses and higher efficiencies in many applications.

## Customer benefits

- **Helps to reduce service costs**  
Advanced formulation for longer oil service life when compared to mineral oils, contributing to lower service costs
- **Longer component service life**  
Formulated to help minimize micro-pitting, offering longer component service life with reduced maintenance
- **Contributes to reduced downtime**  
Engineered to help provide a premium EP protection, contributing to a reduced downtime
- **Promotes high thermal stability**  
High thermal stability and oxidation resistance offer improved oil service life
- **Helps reduce sludge and deposits**  
Minimal harmful sludge and deposit formation promotes keep-clean performance
- **Aids wear and corrosion resistance**  
Contributes to premium wear and helps provide corrosion protection and optimise equipment life

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### Applications

- Meropa EliteSyn WS industrial gear oils are suitable for a range of gear designs, including helical, bevel helical, planetary, worm gears, and marine gear units.
- Meropa EliteSyn WS is also suitable for use in applications such as fill for life disposable gearboxes, textile machines, chain and conveyor systems, kilns and ovens, sliding bearings and roller bearings in high load/EP applications.

### Product approvals, performance and recommendations

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

MEROPA® ELITESYN WS	150
Flender Rev 16.2 Helical-Bevel-Planetary Gear Units	Approved
Flender Rev 16.2 Worm Gear Units	Approved
PEKRUN WERKNORM N8053	Approved
WALDRICH SIEGEN Lubricants for machine tools	Approved
David Brown Table G	Meets Requirements
DIN 51517/3 CLP	Meets Requirements
ISO 12925-1 CKPG	Meets Requirements

Consult OEM representatives for independent verification, updates and recommendations.

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## Product maintenance and handling

Meropa EliteSyn WS is a PAG gear lubricant which is not compatible with mineral oils or most other synthetic lubricant types. A change over procedure is available on request.

There is an incompatibility between PAGs and AL due to the high polarity of Polyglycol with regard to lubricated "tribo components" (friction partners steel to Al material) like bearing cages or worm gear drives and therefore the combination is not allowed!

But Al-gearboxes - which have no bearing or sliding surfaces in direct contact with a steel shaft - are uncritical and can therefore be used with Meropa EliteSyn WS. Please check with the customer/OEM.

Meropa EliteSyn WS should preferably not be mixed with other polyglycol based lubricants in order to preserve the premium properties of Meropa Elitesyn WS. Mixing with other PAG based gear oils could result in a change in appearance. Please note that possible haziness has no influence on the performance of Meropa EliteSyn WS.

Meropa EliteSyn WS does not affect common seal and gasket materials. The use of Nitrile Rubber (NBR), Fluoro-Silicone or Vinyl-Methyl Polysiloxane (Q) is recommended for high temperature applications.

The product is not compatible with polyurethane based elastomers, leather, cork, asbestos, paper and board.

It is recommended to use Meropa EliteSyn WS in gearboxes where the internal surface is unpainted or coated with resistant materials, for example a resistant two-pack epoxy formulation.

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## Typical test data

MEROPA <sup>®</sup> ELITESYN WS	TEST METHOD	RESULT
<b>Viscosity Grade</b>		<b>150</b>
<b>Product Code</b>		<b>533308</b>
Appearance	Observation	Clear to slightly hazy liquid
Density, 15 kg/L	ASTM D4052	1.06
Viscosity, Kinematic mm <sup>2</sup> /s @ 40°C	ASTM D445	156
mm <sup>2</sup> /s @ 100°C	ASTM D445	30
Viscosity Index	ASTM D2270	230
Color	ASTM D6045	0.5
Acid Number, mg KOH/g	ASTM D974	0.07
Flash Point, COC °C	ASTM D92	298
Pour Point, °C	ASTM D5950	-42
FE-8 Bearing Test, mg	DIN 51819-3	Pass
FZG Load Stage, A/8, 3/90	DIN 51354	>14

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 Africa, Middle East and Pakistan region in good faith from the best information available at the time of issue. The specific information included may not directly reflect the local market or conditions. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. For the most up-to-date, country-specific information, please contact your local customer service center.

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Meropa Elitesyn WS/MEA/CHV/PDSv1\_03/04/25



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