



# Meropa<sup>®</sup> EliteSyn WS

## Premium performance synthetic industrial gear lubricant

### Product description

Meropa EliteSyn WS is a premium performance synthetic industrial gear lubricant range offering reliable performance under demanding operating conditions.

Meropa EliteSyn WS is formulated with water soluble polyalkylene glycols, and promotes robust micro-pitting resistance, 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. Available in ISO 150, 220, 320, 460 and 680.

### Customer benefits

- Designed for significantly longer oil service life when compared to mineral oils, helping reduce service costs
- Formulated to minimise micro-pitting, offering longer component service life with reduced maintenance
- Offers premium performance extreme pressure (EP) gear protection, helping reduce downtime
- High thermal stability and oxidation resistance contribute to improved oil service life
- Minimal harmful sludge and deposit formation offers keep-clean performance
- Promotes premium wear and corrosion protection and optimised equipment life

### Product highlights

- **Designed for significantly longer oil service life**
- **Formulated to minimise micro-pitting**
- **Offers premium EP protection**
- **Promotes high thermal stability**
- **Helps reduce sludge and deposits**
- **Aids wear and corrosion resistance**

#### Selected specification standards include:

|             |     |
|-------------|-----|
| David Brown | DIN |
| Flender     | ISO |

## 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.

## Approvals, performance and recommendations

### Approvals

- Flender T 7300 A-b (Revision 16) (Helical-, Bevel- and Planetary Gear Units)
- Flender T 7300 B-b (Revision 16) (Worm Gear Units)

### Performance

- DIN 51 517/3: CLP PG
- ISO 12925-1: CSPG, CTPG
- David brown Type G lubricants

## 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.

| Typical test data  |                    |                              |             |             |             |             |
|--|--------------------|------------------------------|-------------|-------------|-------------|-------------|
| Test   | Test Methods       | Results                      |             |             |             |             |
| Viscosity Grade  |                    | 150                          | 220         | 320         | 460         | 680         |
| <b>Shelf Life: 36 months from date of filling indicated on the product label</b> |                    |                              |             |             |             |             |
| Appearance   | Visual             | Bright & Clear yellow liquid |             |             |             |             |
| Density, 15 °C, kg/l   | ASTM 4052          | 1.054                        | 1.058       | 1.062       | 1.065       | 1.070       |
| Viscosity, Kinematic at 40 °C, mm <sup>2</sup> /s                                | ASTM D445          | 159                          | 230         | 330         | 470         | 690         |
| Viscosity, Kinematic at 100 °C, mm <sup>2</sup> /s                               | ASTM D445          | 30                           | 42          | 59          | 79          | 114         |
| Viscosity Index  | ASTM D2270         | 230                          | 235         | 245         | 252         | 263         |
| Colour   | ASTM D6045         | 0.5                          | 0.5         | 0.5         | 0.5         | 0.5         |
| Flash Point COC, °C  | ISO                | >290                         | >290        | >290        | >290        | >290        |
| Pour point, °C   | ASTM D5950         | -42                          | -42         | -39         | -36         | -36         |
| FE8 bearing roller wear, <30 mg  | DIN 51819-3        | Pass                         | Pass        | Pass        | pass        | pass        |
| FZG load stage, A/ 8.3/90  | DIN 51354          | >14                          | >14         | >14         | >14         | >14         |
| FZG Micro-pitting, 90°C<br>Damage Load stage                                     | FVA nr 54 I-<br>IV | >10<br>High                  | >10<br>High | >10<br>high | >10<br>high | >10<br>high |

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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When disposing of used product, take care to protect the environment and follow local legislation.

Safety Data Sheets (SDS's) are available for all Chevron products. If you require a SDS or any further information regarding a Chevron product, please contact your local sales office or see [www.texacolubricants.com](http://www.texacolubricants.com).

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