



# Synlube<sup>®</sup> WS

## Ultra high performance synthetic gear lubricants

### Product description

Synlube WS is a line of ultra high performance synthetic gear lubricants designed to provide high-level EP wear protection to gears and bearings operating under the most severe load conditions.

### Customer benefits

- Excellent EP wear and micropitting protection under severe conditions extends equipment service life
- Reduces operating temperatures
- Extreme temperature thermal stability increases oil life, saving time and expense
- Oxidation resistance prevents sludge and deposit formation, increasing uptime and productivity
- Low temperature fluidity improves cold-start performance and energy efficiency
- Reliable corrosion and rust protection improves component reliability, reducing maintenance time and costs
- Shear stability and foam suppression optimise lubrication performance
- Comprehensive range of applications reduces inventories and saves money

### Product highlights

- **Improves reliability and reduces maintenance requirements in paper mill gear boxes**
- **Can reduce operating temperatures**
- **Wide operating temperature range**

**Selected specification standards and OEM approvals include:**

Flender

## Applications

- Synlube WS lubricants can be used in 'lubricated for life' applications.
- Synlube WS offers excellent system protection to gears and bearings operating under severe conditions at both very low and elevated temperatures.
- Synlube WS is recommended for use with helical, bevel helical, planetary and worm gears, chains and conveyors, sliding and roller bearings in high load/EP applications.

## Approvals, performance and recommendations

### Approvals

- Synlube WS is approved by Flender for the use in helical, bevel-helical, planetary and worm gear units.

### Performance

- Synlube WS meets DIN 51517/3

Typical test data				
Test	Test methods	Results		
<b>Viscosity Grade</b>		<b>150</b>	<b>220</b>	<b>320</b>
Visc. Kinematic at 40°C	ISO 3104	150	220	320
Visc. Kinematic at 100°C	ISO 3104	25	41.8	61.6
Visc. Index	ISO 2909	227	241	252
Flash Point, COC °C	ISO 2592	284	284	282
Pour point, °C	ISO 3016	-42	-42	-42
Density, 15°C, Kg/l	ASTM D1298	1.0527	1.0575	1.0625
Cu Corrosion, 3h, 100°C	ASTM D0130	1B	1B	1B
Rust – Distilled water	ASTM D0665A	Pass	Pass	Pass
FZG load stage, A/ 8.3/90	DIN 51354	-	>12	-

Typical test data				
Test	Test methods	Results		
<b>Viscosity Grade</b>		<b>460</b>	<b>680</b>	<b>1000</b>
Visc. Kinematic at 40°C	ISO 3104	460	680	1000
Visc. Kinematic at 100°C	ISO 3104	85.3	126.8	156.4
Visc. Index	ISO 2909	262	272	284
Flash Point, COC ° C	ISO 2592	284	284	296
Pour point, °C	ISO 3016	-36	-33	-30
Density, 15°C, Kg/l	ASTM D1298	1.0667	1.0729	1.0750
Cu Corrosion, 3h, 100°C	ASTM D0130	1B	1B	1B
Rust – Distilled water	ASTM D0665A	Pass	Pass	Pass
FZG load stage, A/8.3/90	DIN 51354	>12	-	-

The product is not miscible with mineral oils and should not be mixed with other polyglycol-based lubricants in order to preserve the premium properties of Synlube WS. Mixing Synlube WS and Synlube CLP could result in a change in appearance. Please note that possible haziness has no influence on the performance of Synlube WS.

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

**Disclaimer** Chevron accepts no liability for any loss or damage suffered as a result of using this product for any application other than applications specifically stated in any Product Data Sheets.

**Health, safety, storage and environmental** Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDSs are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

#### A Chevron company product