

Klübersynth GE 4 75 W 90

Synthetic high-performance gear oil



Your benefits at a glance

- **Highest scuffing load capacity API GL-5**
- **Excellent wear protection of both gears and rolling bearings**
- **Good shear stability for reliable lubricating film formation**
- **High micropitting resistance**
- **Excellent ageing and oxidation resistance**
- **Wide service temperature range due to good viscosity-temperature behaviour**
- **Good anti-foam properties**
- **Particularly suitable for rail vehicle gears - approved by Wateeuw, Voith Turbo, Siemens-Flender, Bombardier, Deutsche Bahn AG, Stadler and many more**

Your requirements - our solution

Klübersynth GE 4 75 W 90 is a fully synthetic high-performance gear oil based on polyalphaolefin (PAO), which offers high shear stability and protection, even when exposed to impact load. It is particularly suitable for rail vehicle gears subject to high loads.

This high-performance gear oil offers a very high scuffing load capacity of API GL-5, and can therefore be used for gears which have to meet API GL-4 or API GL-5 requirements. The good wear protection of both gears and rolling bearings enables a long service life of the lubricated components for reduced maintenance costs. The high micropitting resistance of GFT ≥ 10 acc. to FVA 54/7 offers sufficient protection to gears that are subject to high loads and would normally be susceptible to this type of damage.

The good shear stability of the synthetic base oil prevents decrease of the lubricating film thickness even under high loads. Due to the excellent ageing and oxidation stability of the synthetic base oil, oil change intervals are much longer than with mineral oils, thus reducing maintenance costs.

The good low-temperature properties enable a reliable function of the gear components, even at low temperatures. Operational reliability of the lubricated components is also enhanced by the good anti-foam and anti-corrosion properties.

Application

Klübersynth GE 4 75 W 90 is used for the lubrication of spur, bevel and hypoid gears requiring maximum wear protection and service life, even when exposed to impact loads. Klübersynth GE 4 75 W 90 is suitable for drives in rail vehicles, industrial robots, textile machines and forming presses.

Application notes

Klübersynth GE 4 75 W 90 can be applied by means of immersion, immersion circulation or injection. The use of drip-feed oilers, brushes, oil cans or suitable automatic lubricating systems is also possible.

Material safety data sheets

Material safety data sheets can be requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	Klübersynth GE 4 75 W 90
Canister 5 l	+
Canister 20 l	+
Drum 200 l	+



Klübersynth GE 4 75 W 90

Synthetic high-performance gear oil

Product data	Klübersynth GE 4 75 W 90
Article number	012117
Lower service temperature	-40 °C / -40 °F
Upper service temperature	150 °C / 302 °F
Density, DIN 51757, 20 °C	approx. 0.86 g/cm ³
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 130 mm ² /s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 18 mm ² /s
SAE-viscosity grade	75 W 90
Viscosity index, DIN ISO 2909	>= 150
Flash point, DIN EN ISO 2592, Cleveland, open-cup apparatus	>= 210 °C
Anticorrosive properties on steel, DIN ISO 7120, method A, steel, 24 h/60 °C	no rust corrosion degree
Four-ball EP tester, welding load, DIN 51350 part 2	>= 3 000 N
Pour point, DIN ISO 3016	<= -42 °C
API scuffing load capacity	API GL 5
Flender foaming test with original oil, increase in volume	<= 15 %
FZG scuffing test, DIN ISO 14635-1, A/8.3/90, scuffing load stage	>= 14
FZG micropitting test, FVA 54, GF-C/8,3/90, failure load stage	>= 10
FAG FE8 rolling bearing test, DIN 51819-3, D 7,5/80-80, wear of rolling element	<= 30 mg
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 months

Klüber Lubrication – your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high-performance lubricants for more than 80 years.

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