



Texol Gearsyn™ TGO Spezial

Technical Data Sheet

Texol Gearsyn™ TGO Spezial

Ultra high performance fully synthetic traction fluid

Product Description

Texol Gearsyn™ TGO Spezial is a solid-free performance fully synthetic traction gear oil based on synthetic hydrocarbon oils. Wear problems such as abrasion, surface fatigue (pitting), grey staining or problems during the running-in phase are solved. Compatible with non-ferrous metals. The additive combination adjusts itself to changing loads and actively prevents wear.

It was especially developed to provide a sufficiently high friction coefficient for use in traction gears. This is essential if such gears are to be operated with minimum slip at high loads.

Texol Gearsyn™ TGO Spezial is characterised by good protection against wear and corrosion as well as high ageing resistance. No silicone materials are used for this product.

Applications

- Long-term lubrication under the most extreme mechanical conditions, vibrations and elevated temperatures
- Dip-feed gear lubrication, the operating temperature range of between -40°C and 100°C
- For friction drive gears of various designs operating under high loads
- Spur and bevel gears, worm gears up to the medium load range
- All types of Rolling and sliding bearings
- Gear-tooth couplings and joints
- Highly loaded sliding surfaces
- Circulation and hydraulic systems

Advantages

- Extra ordinary load carrying capacity
- Optimum wear protection up to the highest load ranges
- Maximum reliability against grey staining
- Reduction of the coefficient of friction and temperature
- Improvement of surface even when damage by micro smoothing effect
- Significantly shorter running in period
- High corrosion protection
- Free from solids due to oil soluble additive combination
- Extended oil change intervals even under extreme conditions
- Longer service life of gears
- Reduced energy, maintenance and disposal costs



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Typical Properties

Property (Unit)	Gearsyn TGO Spezial	Method
Base oil viscosity at 40°C	18	DIN 51366
Base oil viscosity at 100°C	3.65	DIN 51366
Colour	blue	-
Flash point °C	>185	ISO 2592
Viscosity index	126	DIN ISO 2909
Behavior in the presence of water, 90 °C	0	DIN 51807/1
Oxidation stability, after 100h, hPa	<250	DIN 51808
Oxidation stability, after 300h, hPa	<400	DIN 51808
Emcor test, IP 220/67, Rating	0/0	DIN 51802
Copper corrosion, 100°C, after 24 h	1	DIN 51811
Rust Prevention properties, Rating	1	ASTM D 1743
Density, 20°C	0.88	DIN 51757
Four ball test scar diameter, mm	0.60	ASTM D 2266
Four ball wear test scar diameter, mm	<0.7	DIN 51350-05-E
SRV test, 50°C, 300N, 2h Amplitude 1000µm, µ	0.07-0.08	DIN E 51834-02-S
Flow pressure at -20°C, hPa	645	DIN 51805
Pour Point, °C	<=-45	DIN ISO 3016
Operating temperature range, °C	-40 / + 100	-

Notes for Use

- Condensation water may be absorbed without the danger of corrosion or a change in viscosity.
- Texol Gearsyn™ TGO Spezial is compatible with seals, e.g. NBR, FPM.
- They are compatible with nearly all conventional one-component and two-component lacquers.
- Quality standard: Texol Gearsyn™ TGO Spezial can be used in dip-feed circulation and injection lubrication systems.