



## TITAN GEAR HYP SAE 90

Hypoid gear oil for highly-stressed differentials in commercial vehicles and passenger cars.

### Description

TITAN GEAR HYP SAE 90 is a mineral gear oil for axle and hypoid transmissions calling for API GL-5-performance. The formulation has proven its performance with many OEMs.

### Application

TITAN GEAR HYP 90 can be used as rationalization brand in applications where gear oils API-GL3/GL4/GL5 in SAE class 90 are specified. TITAN GEAR HYP fulfills the requirements of a gear oil according to SAE J 306. Even at very low outside temperatures, TITAN GEAR HYP offers the fastest possible complete lubrication during start off, outstanding gear efficiency and lowest power losses. TITAN GEAR HYP SAE 90 is miscible and compatible with conventional branded gear oils. However, mixing with other gear oils should be avoided in order to fully utilize the product's benefits. A complete oil change is recommended when converting to TITAN GEAR HYP SAE 90. For information on product safety and proper disposal please refer to the latest Material Safety Data Sheet.

### Advantages/Benefits

- Multi-purpose suitability both for running-in and long-term applications
- Very good load-bearing capacity, even with high long-term stresses and resulting high oil temperatures
- Excellent cold-flow properties; because of this no lack of lubrication when starting off
- Compatible with many gasket materials and other elastomers.
- Prevents from corrosion with many metals normally used in gearbox manufacturing
- Effective foam control even at high engine speeds and oil temperatures

### Specifications

- API GL-5

### Approvals

- MAN 342 TYPE M1
- MB-APPROVAL 235.0
- ZF TE-ML 05A, 16C, 17B, 19B, 21A

### FUCHS Recommendations

- FORD M2C9102-A
- JOHN DEERE JDM J 11 E
- OPEL 19 42 387
- VW TL 727
- ZF TE-ML 07, 08

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## CHARACTERISTICS

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Density at 15 °C	DIN 51757	0.902 g/ml
Colour	DIN ISO 2049	3 ASTM
Flash Point, CoC	DIN ISO 2592	210 °C
Pour Point	DIN ISO 3016	-24 °C
Neutralization Number	FLV-N7 / DIN 51558	2.5 mgKOH/g
Foaming Tendency Seq. I/II/III	ASTM D 892	0/0 ; 0/0 ; 0/0 ml
Dynamic Viscosity at - 12°C	DIN 51398	23,000 mPas
Kinematic Viscosity at 40°C	DIN 51562-1	185 mm <sup>2</sup> /s
Kinematic Viscosity at 100°C	DIN 51562-1	17.2 mm <sup>2</sup> /s
Viscosity Index	DIN ISO 2909	91

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We therefore recommend that you consult a FUCHS EUROPE SCHMIERSTOFFE GMBH application engineer to discuss application conditions and the performance criteria of the products before the product is used. It is the responsibility of the user to test the functional suitability of the product and to use it with the corresponding care.

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