



# Geartex EP-5

## Proven performance automotive gear oils

### Product description

Geartex® EP-5 are proven performance automotive gear oils suitable for use in applications requiring API GL-5 performance. Formulated with mineral base stocks in combination with highly effective additives, these lubricants are available in viscosity grades SAE 80W-90, SAE 85W-90 and 85W-140.

### Customer benefits

- High performance EP protection promotes resistance to component scuffing and wear
- Reliable shear stability contributes to consistent viscosity and system protection throughout fluid service life
- Low temperature fluidity performance helps ensure rapid lubrication and system wear protection during cold start-up
- Robust oxidation stability helps protect against in-service oil thickening, and aids system cleanliness

### Product highlights

- **Promotes system protection throughout fluid service life**
- **Assists low temperature start-up protection**
- **Contributes to scuffing and wear protection**
- **Helps keep systems clean**

#### Selected specification standards include:

API	Bosch
Mercedes-Benz	MAN
US Military	Volvo
ZF	

## Applications

- Geartex EP-5 products are designed for use in automotive hypoid drive axles, steering systems, non-synchronized transmissions and transaxles which require a fluid with API GL-5 performance
- The friction characteristics of Geartex EP-5 products make them generally unsuitable for use in synchronized manual transmissions and transaxles, and they should not be used in these applications unless a GL-5 fluid is specifically recommended
- Operating temperatures of above +100 °C will lead to a significant reduction in the fluid service life. Peak operating temperatures should not exceed +120 °C

Note that Daimler axle oil specifications include a minimum viscosity requirement that is not met by Geartex EP-5 SAE 80W-90. Although this viscosity grade is suitable for use in MB 235.0 applications, use Geartex EP-5 SAE 85W-90 if an approved product is required

## Approvals, performance and suitable for use

### Approvals

Viscosity grade		80W-90	85W-90	85W-140
Mercedes-Benz	MB 235.0		X	
ZF	TE-ML 16B	X <sup>[8]</sup>	—	—
ZF	TE-ML 16C	—	X <sup>[9]</sup>	—
ZF	TE-ML 16D	—	—	X <sup>[10]</sup>
ZF	TE-ML 17B	X <sup>[8]</sup>	X <sup>[9]</sup>	—
ZF	TE-ML 19B	X <sup>[8]</sup>	X <sup>[9]</sup>	—
ZF	TE-ML 21A	X <sup>[8]</sup>	X <sup>[9]</sup>	X <sup>[10]</sup>

### Performance

Viscosity grade		80W-90	85W-90	85W-140
API	GL-5	X	X	X
Bosch	TE-ML 08	X <sup>[7]</sup>	X	X <sup>[7]</sup>
US Military	MIL-L-2105D	X	—	X
Volvo	97310-90	X	X	—
Volvo	97310-91	—	—	X
ZF	TE-ML 07A	X <sup>[1,2]</sup>	X <sup>[1,3]</sup>	X <sup>[1,3]</sup>

### Suitable for use

Viscosity grade		80W-90	85W-90	85W-140
Mercedes-Benz	MB 235.0	X	—	—
MAN	342 Type M1	X <sup>[11]</sup>	X <sup>[11]</sup>	—
ZF	TE-ML 05A	X <sup>[4]</sup>	X <sup>[4]</sup>	X <sup>[4]</sup>
ZF	TE-ML 12A	X <sup>[5]</sup>	X <sup>[11]</sup>	X <sup>[5]</sup>
ZF	TE-ML 19B	—	—	X <sup>[6]</sup>

<sup>1</sup> Products meeting the necessary requirements for this specification are approved without listing

<sup>2</sup> For outside temperatures above -26°C.

<sup>3</sup> For outside temperatures above -12°C.

<sup>4</sup> Previously approved, but ZF has changed the technical requirements for inclusion in this list

<sup>5</sup> Obsolete specification

<sup>6</sup> Previously approved, but SAE 85W-140 grades are no longer approved for this application.

<sup>7</sup> List formerly administered by ZF. Products meeting the necessary performance requirements are approved for use, but there is no product listing.

<sup>8</sup> ZF approval number: ZF002279.

<sup>9</sup> ZF approval number: ZF002278.

<sup>10</sup> ZF approval number: ZF002280.

<sup>11</sup> Obsolete specification. Product was previously approved.

Typical test data				
Test	Test methods	Results		
Viscosity Grade		SAE 80W-90	SAE 85W-90	SAE 85W-140
<b>Shelf Life: 60 months from date of filling indicated on the product label.</b>				
Density, 15 °C, kg/l	ASTM D4053	0.885	0.892	0.906
Flash Point COC, °C	ASTM D92	218	210	220
Pour Point, °C	ASTM D5950	-39	-35	-18
Viscosity, Kinematic, 100 °C, mm <sup>2</sup> /s	ASTM D445	14.3	17.0	26.2
Viscosity, Kinematic, 40 °C, mm <sup>2</sup> /s	ASTM D445	132	177	349
Viscosity Index	ASTM D2270	107	103	100

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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