



# GearTex® EP-C

High performance automotive gear lubricants

Product Data Sheet

## Product description

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

## Customer benefits

- 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
- High performance EP protection promotes resistance to component scuffing and wear
- Robust oxidation stability helps protect against in-service oil thickening, and aids system cleanliness
- Compatible with a wide range of elastomers, assisting in fluid loss prevention through leakage
- Helps prevent components rusting and any resulting system damage
- Foam suppression optimises lubrication performance

## Applications

- GearTex EP-C is 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-C make it unsuitable for use in synchronized manual transmissions and transaxles, and it 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

## 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
- Aids component rust prevention
- Selected specification standards include:
  - API
  - Daimler
  - MAN
  - US Military
  - Volvo
  - ZF

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

## Approvals, performance and recommendations

### Approvals

• ZF	TE-ML 16B	80W-90	–
• ZF	TE-ML 16D	–	85W-140
• ZF	TE-ML 17B	80W-90	–
• ZF	TE-ML 19B	80W-90	–
• ZF	TE-ML 21A	80W-90	85W-140

### Performance

• API	GL-5	80W-90	85W-140
• US Military	MIL-L-2105D	80W-90	85W-140
• Volvo	97310-90	80W-90	–
• Volvo	97310-91	–	85W-140
• ZF	TE-ML 07A	80W-90 <sup>1,2</sup>	85W-140 <sup>1,3</sup>
• ZF	TE-ML 08	80W-90 <sup>1</sup>	85W-140 <sup>1</sup>

### Recommendations

• Daimler	MB 235.0	80W-90	–
• MAN	342 Type M1	80W-90	–
• ZF	TE-ML 05A	80W-90 <sup>4</sup>	85W-140 <sup>4</sup>
• ZF	TE-ML 12A	80W-90 <sup>5</sup>	85W-140 <sup>5</sup>
• ZF	TE-ML 19B	–	85W-140 <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.



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continued

## Typical test data

GEARTEX EP-C TEST	TEST METHODS	RESULTS	
Viscosity Grade		80W-90	85W-140
Product Code		02316	02317
Density, 15 °C, kg/l	ASTM D4053	0.899	0.907
Flash Point COC, °C	ASTM D92	212	214
Pour Point, °C	ASTM D97	-33	-18
Viscosity, Kinematic, 100 °C, mm <sup>2</sup> /s	ASTM D445	14.0	26.1
Viscosity, Kinematic, 40 °C, mm <sup>2</sup> /s	ASTM D445	135	360
Viscosity Index	ASTM D2270	101	100

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 Sheet's.

**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). MSDS's 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.

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