



Geartex[®] EP-C

High performance automotive gear lubricants

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

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

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
- 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

Recommendations

Daimler	MB 235.0	80W-90	—
MAN	342 Type M1	80W-90	—
ZF	TE-ML 05A	80W-90 ⁴	85W-140 ⁴
ZF	TE-ML 12A	80W-90 ⁵	85W-140 ⁵
ZF	TE-ML 19B	—	85W-140 ⁶

¹ Products meeting the necessary requirements for this specification are approved without listing

² For outside temperatures above -26°C

³ For outside temperatures above -12°C

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

⁵ Obsolete specification

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

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 ^{1,2}	85W-140 ^{1,3}
ZF	TE-ML 08	80W-90 ¹	85W-140 ¹

Typical test data			
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 ² /s	ASTM D445	14.0	26.1
Viscosity, Kinematic, 40 °C, mm ² /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.

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