



Geartex[®] EP-4

Proven performance automotive gear oil

(Supersedes Geartex EP-A)

Product description

Geartex EP-4 are proven performance automotive gear oils suitable for API GL-4 applications. They are formulated with mineral base oils in combination with selected additives to help resist wear, corrosion and oxidation.

Geartex EP-4 is available in SAE 80W and SAE 80W 90 viscosity grades.

Customer benefits

- Proven additive system offers reliable EP protection to critical components against scuffing and wear
- Low temperature fluidity promotes rapid oil circulation during cold start-up, helping protect system components
- Robust shear stability helps ensure viscosity is maintained throughout oil service life

Applications

- Geartex EP-4 lubricants are designed for use in automotive transmissions, transaxles, steering systems and hypoid drive axles which require a fluid with API GL-4 performance (equivalent to US Military specification MIL-L-2105). The friction characteristics of the Geartex EP-4 product range make them suitable for use in many synchronised manual transmissions. (Some modern transmissions may require a specific fluid type – refer to the manufacturers' literature for further details)
- 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 due to the use of premium quality base oils, these products have a lighter colour than many lubricants of this type (especially the SAE 80W viscosity grade)

Product highlights

- **EP wear resistance**
- **Cold start protection**
- **Highly shear stable**

Selected specification standards include:

API	Bosch
MAN	Mercedes-Benz
US Military	ZF

Approvals, performance and recommendations

Approvals

Viscosity Grade		SAE 80W	SAE 80W-90
Mercedes-Benz	MB 235.1	X	X
ZF	TE-ML 16A	—	X [2]
ZF	TE-ML 17A	X [1]	X [2]
ZF	TE-ML 19A	—	X [2]

Recommendations

Viscosity Grade		SAE 80W	SAE 80W-90
MAN	341 Type E1	X [5]	X [5]
MAN	341 Type Z1	X [5]	X [5]
MAN	341 Type Z2	X [5]	X [5]
ZF	TE-ML 02A	X [5]	X [5]
ZF	TE-ML 02B	X [6]	X [6]

Performance

Viscosity Grade		SAE 80W	SAE 80W-90
API	GL-4	X	X
Bosch	TE-ML 08	X [3]	X [3]
US Military	MIL-L-2105	X	X
ZF	TE-ML 24A	X [7]	—

[1] ZF approval number: ZF002276

[2] ZF approval number: ZF002277

[3] List formerly administered by ZF. Products meeting the necessary performance requirements are approved for use, but there is no product listing.

[4] This list has been discontinued. Oils that were formerly approved were moved to list 341 Type Z2.

[5] This list has been discontinued.

[6] Formerly approved, but ZF removed products of this type from the list in December 2014.

[7] Products meeting the necessary performance requirements are approved for use, but there is no product listing.

Typical test data			
Test	Test methods	Results	
Viscosity Grade		SAE 80W	SAE 80W-90
Shelf Life: 60 months from date of filling indicated on the product label.			
Viscosity Kinematic, 40°C, mm ² /s	ASTM D445	74	129
Viscosity Kinematic, 100°C, mm ² /s	ASTM D445	9.6	13.9
Viscosity Brookfield, -26°C, mPa.s	ASTM D2983	17,500	54,000
Viscosity Index	ASTM D2270	110	105
Density, 15°C, kg/l	ASTM D4052	0.872	0.880
Flash Point COC, °C	ASTM D92	210	210
Pour Point, °C	ASTM D5950	-42	-36

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 Sheets.

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). MSDSs 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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