



# Geartex® LS SAE 85W-90

## High performance limited slip axle lubricant

Product Data Sheet

### Product description

Geartex LS SAE 85W-90 is a high performance automotive gear lubricant formulated for use in limited slip differentials, and conforms to API service designation GL-5. Geartex LS is formulated with a mineral oil base in combination with an effective additive package, formulated to contribute to reliable limited slip differential performance and protection.

### Customer benefits

- High performance friction modifier additive promotes smooth, noise free operation in limited slip differentials
- Robust EP formulation helps prevent component scuffing and wear
- Low temperature fluidity aids rapid lubricant circulation and wear protection during cold starts
- Reliable shear stability promotes consistent viscosity and system protection throughout fluid lifetime

### Applications

- Geartex LS is specifically designed for use in automotive limited slip differential axles. The special friction modifier additive included in the formulation is approved by ZF for use in their limited slip systems. Geartex LS may also be used in equipment requiring a standard GL-5 gear lubricant: hypoid drive axles, steering systems, non-synchronized transmissions and transaxles. The friction characteristics of Geartex LS make it unsuitable for use in synchronized manual transmissions and transaxles, and it should not be used in these applications
- 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
- Geartex LS is not recommended for use in wet brake systems. These applications generally require products with a higher degree of friction modification, and may also generate higher temperatures than Geartex LS can withstand. Use 1000 THF in these applications

### Product highlights:

- Promotes smooth, noise-free operation
- Aids protection against component scuffing and wear
- Designed to offer component wear protection during cold starts
- Contributes protection throughout fluid lifetime

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## Approvals, performance and recommendations

### Approvals

- ZF TE-ML 05C <sup>[1]</sup>
- ZF TE-ML 12C <sup>[1]</sup>
- ZF TE-ML 16E <sup>[1]</sup>
- ZF TE-ML 21C <sup>[1]</sup>

### Performance

- API GL-5

### Recommendations

- ZF TE-ML 16E

[1] ZF Registration number: ZFO00810

## Typical Key Properties

GEARTEX LS SAE 85W-90		
TEST	TEST METHODS	RESULTS
Shelf Life: 12 months from date of filling indicated on the product label.		
<b>SAE Grade</b>		<b>85W-90</b>
Density, 15°C, kg/l	ASTM D4053	0.867
Flash Point COC, °C	ASTM D92	214
Pour Point, °C	ASTM D5950ASTM D5950	-30
Viscosity, Kinematic, 100°C, mm <sup>2</sup> /s	ASTM D445	16.8
Viscosity, Kinematic, 40°C, mm <sup>2</sup> /s	ASTM D445	173
Viscosity Index	ASTM D2270	103
Viscosity, Brookfield, -12°C, mPa.s	ASTM D2983	16,000

This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended.

Environment, Health and Safety Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit [www.caltexoils.com](http://www.caltexoils.com).

For more information, go to [www.chevronlubricants.com](http://www.chevronlubricants.com)

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GEARTX LS/SA/PDSv1\_19/12/2019

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