



Geartex LS SAE 85W-90

"Limited Slip" Automotive Gear Oil

Product Data Sheet



Customer benefits

Quiet operation with limited shudder

Special friction modifier system provides excellent lubricity characteristics to help promote smooth, non-stick/slip engagement and disengagement of limited slip differential plate clutches.

Long gear life

Robust EP additives help control gear tooth wear, even under high torque, low speed and shock loading conditions. Rust and corrosion inhibitors help prevent component damage by water condensation or contamination.

Low temperature fluidity

Low temperature fluidity aids rapid lubricant circulation and wear protection during cold starts.

Reliable shear stability

Reliable shear stability promotes consistent viscosity and system protection throughout fluid lifetime.

Product features:

- High performance, EP automotive gear oil specifically designed for "limited slip" rear drive differentials and conforms to API GL-5 service designation.
- It is formulated with a mineral oil base in combination with an effective additive package. Its special friction properties help to provide smooth, noise free operation and extended life of multiplate clutches in limited slip differentials (LSDs).



Applications

Geartex LS SAE 85W-90 is specifically designed for use in automotive limited slip differential drive axles. The special friction modifier additive included in the formulation is approved by ZF for use in their limited slip systems. It also meets the requirements for ArvinMeritor limited slip axles.

Geartex LS SAE 85W-90 may also be used in equipment requiring a standard API GL-5 gear lubricant: hypoid drive axles, steering systems.

The friction characteristics of Geartex LS SAE 85W-90 makes it unsuitable for use in synchronized manual transmissions and transaxles, and it should not be used in these applications unless an API 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.

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 SAE 85W-90 can withstand. Use 1000 THF for these applications.

Note: Appearance of product can turn hazy at temperatures below 5°C. This is due to the presence of friction modifier additives needed in limited slip differential mechanisms. Hazy appearance will not affect lubricant performance.



Typical key properties

GEARTEX LS	
SAE Grade	85W-90
Product Code	510328
Density, 15°C, kg/l	0.867
Pour Point, °C	-30
Flash Point COC, °C	182 (Min)
Viscosity, Kinematic	
mm ² /s @ 40°C	177
mm ² /s @ 100°C	16.8

Minor variations in product typical test data are to be expected in normal manufacturing.

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Performance standards

Geartex LS SAE 85W-90 meets the requirements of:

- API GL-5 (self-certified)
- ZF (approved)
 - TE-ML 05C
 - TE-ML 12C
 - TE-ML 21C

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.caltex.com.

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.

Produced by:
Chevron Global Lubricants
– Asia Pacific