



Geartex[®] LS

High performance automotive gear lubricants

Product description

Geartex LS are high performance automotive gear lubricants formulated for use in limited slip differentials, and conform to API service designation GL-5.

Geartex LS is available in SAE 80W-90, 85W-90 and 85W-140 grades, and 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
- Dependable oxidation stability helps resist in-service oil thickening and contributes to improved component cleanliness
- Compatibility with a wide range of elastomers helps prevent seal deterioration and fluid leakage
- Promotes reliable rust resistance and component protection
- Good foam suppression

Product highlights

- **Promotes smooth, noise free operation**
- **Aids protection against component scuffing and wear**
- **Offers reliable wear protection during cold starts**
- **Contributes protection throughout fluid lifetime**
- **Helps improve system cleanliness**

Selected specification standards include:

API

ZF

Applications

- Geartex LS is specifically designed for use in automotive limited slip differential axles. The special friction modifier additive included in the formulation is the only one that is approved by ZF for use in their limited slip systems. It also meets the requirements for ArvinMeritor limited slip axles
- 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 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
- 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 Textran TDH Premium in these applications

Approvals, performance and recommendations

SAE viscosity grade		80W-90	85W-90	85W-140
API	GL-5	Meets requirements	Meets requirements	Meets requirements
Daimler	TE-ML 05C	Approved	Approved	Meets requirements
MAN	TE-ML 12C	Approved	Approved	Meets requirements
MAN	TE-ML 16E	Suitable for use	Approved	Meets requirements
ZF	TE-ML 21C	Approved	Approved	Meets requirements

Typical test data

Test	Test methods	Results		
		80W-90	85W-90	85W-140
Viscosity Grade		80W-90	85W-90	85W-140
Product Code		31712	20843	33182
Density, 15 °C, kg/l	ASTM D4053	0.903	0.902	0.907
Flash Point COC, °C	ASTM D92	214	210	214
Pour Point, °C	ASTM D97	-33	-30	-15
Viscosity, Kinematic, 100 °C, mm ² /s	ASTM D445	14.8	16.8	25.0
Viscosity, Kinematic, 40 °C, mm ² /s	ASTM D445	136	177	325
Viscosity Index	ASTM D2270	110	100	98

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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