

Geartex LS



Product description

Geartex LS is a range of automotive gear lubricants suitable for use in limited slip differentials. They conform to the API service designation GL-5.

They are formulated with mineral base oils in combination with a high performance additive system.

Geartex LS is available in the viscosity grades SAE 80W-90, SAE 85W-90 and SAE 85W-140.

Customer benefits

- Special friction modifier additive, giving the product the specific friction characteristics needed for smooth, noise free operation in limited slip differentials.
- Excellent EP protection, protecting components against scuffing and wear.
- Good low-temperature fluidity, superior to standard monograde products, allowing fast circulation during cold weather start-up.
- Excellent shear stability, ensuring that the viscosity is retained throughout the fluid lifetime.
- Reliable oxidation stability, preventing oil thickening during service.
- Compatible with a wide variety of elastomer materials, preventing loss of fluid due to seal deterioration.
- Excellent rust protection.
- Good resistance to foaming.

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 Textran TDH Premium in these applications.

Approvals, performance and recommendations

Approvals	80W-90	85W-90	85W-140
ZF TE-ML 05C	X ^[1]	X ^[2]	X ^[3]
ZF TE-ML 12C	X ^[1]	X ^[2]	X ^[3]
ZF TE-ML 16E	-	X ^[2]	X ^[3]
ZF TE-ML 21C	X ^[1]	X ^[2]	X ^[3]
Performance	80W-90	85W-90	85W-140
API GL-5	X	X	X
Recommendations	80W-90	85W-90	85W-140
ZF TE-ML 16E	X	-	-

^[1] ZF Registration number: ZF000809

^[2] ZF Registration number: ZF000810

^[3] ZF Registration number: ZF001686

Typical test data

GEARTEX LS	TEST METHOD	RESULTS		
		80W-90	85W-90	85W-140
SAE Grade		80W-90	85W-90	85W-140
Product Code		510342	510328	510341
Density, 15°C, kg/l	ASTM D4053	0.895	0.898	0.9087
Flash Point COC, °C	ASTM D92	214	218	222
Pour Point, °C	ASTM D97	-42	-34	-24
Viscosity, Kinematic, mm ² /s @ 40°C mm ² /s @ 100°C	ASTM D445	135	170	318
	ASTM D445	14.7	16.7	24.9
Viscosity Index	ASTM D2270	110	103	100
Viscosity, Brookfield, mPa.s @ -12°C mPa.s @ -26°C	ASTM D2983	–	12,000	42,000
	ASTM D2983	70,000	–	–

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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 the Product Information Center.

This Product Data Sheet (PDS) was produced for the Asia-Pacific region in good faith from the best information available at the time of issue. The specific information included may not directly reflect the local market or conditions. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. For the most up-to-date, country-specific information, please contact your local customer service center.

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