

Technical Data Sheet

Texol Gearsyn™ LS Series

High performance automotive gear lubricants

Product Description

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

Texol Gearsyn™ LS series are available in SAE 90, 80W-90, 85W-90, 85W-140, 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

Applications and Uses

- Texol Gearsyn™ LS series are 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 limited slip axles
- Texol Gearsyn™ 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 Gearsyn 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 temperature of above +100°C will lead to significant reduction in the fluid service life. Peak operating temperatures should not exceed +120°C

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Typical Properties

Property (Unit)	LS90	LS80W-90	LS85W-90	LS85W-140	LS 140	Method
Density at +15 °C	901	901	902	903	904	DIN 51757
Viscosity @40°C, cSt	152	136	177	325	360	DIN 51550
Viscosity @100°C, cSt	15.4	14.8	16.8	25.0	28.6	DIN 51550
Viscosity Index	105	110	100	98	95	DIN ISO 2909
Flash Point, °C	214	214	210	214	214	DIN ISO 2592
Pour Point, °C	-33	-33	-30	-17	-15	DIN ISO 3016
Four ball weld load, N	1600	1700	1800	1800	1800	DIN 51350-02
Four ball wear test, mm			0.28			DIN 51350-03
FZG test (A/8.3/90)			>12			DIN 51354

Notes for Use

- Condensation water may be absorbed without the danger of corrosion or a change in viscosity.
- Texol Gearsyn™ LS lubricants are compatible with seals, e.g. NBR, FPM.
- They are compatible with nearly all conventional one-component and two-component lacquers.
- Quality standard: Texol Gearsyn™ LS lubricants are CLP oils and exceed the minimum requirements according to DIN 51517 for CLP gear oils