

Gear Oil GL-4

Automotive gear lubricants in SAE 80W-90, SAE 85W-140



Product description

Caltex Gear Oil GL-4 are formulated using paraffinic base stocks and contain a carefully balanced sulfur-phosphorus extreme pressure additive package to provide gear protection, good rust and corrosion protection and long lubricant life.

Caltex Gear Oil GL-4 gear lubricants are recommended for use in automotive spiral bevel and hypoid differentials, power dividers, oil-lubricated steering axle wheel bearings and transaxles/ transmissions where API GL-4 Oils are recommended.

Customer benefits and product features

Caltex Gear Oil GL-4 delivers value through:

- **Good gear life**
Extreme pressure properties protect hypoid and other types of gears from scuffing and wear.
- **Rust and corrosion protection**
Effective inhibitor package protects against rusting or corrosion of gear and bearing surfaces.
- **Market general performance**
Acceptable thermal and oxidation stability allows for appropriate gear protection in non-critical operations.
- **Good lubricant life**
Outstanding thermal and oxidation stability allow high temperature operation with long lubricant life.
- **Seal protection**
Formulated to protect against oil seal deterioration.

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Applications

Gear Oil GL-4 are designed for use in automotive transmissions, transaxles, steering systems and hypoid drive axles which require a fluid with API GL-4 performance (equivalent to US Military specification MIL-L-2105).

The friction characteristics of the Gear Oil GL-4 product range make them suitable for use in many synchronized manual transmissions.

Some modern transmissions may require a specific fluid type – refer to the manufacturers' literature for further details.

Approvals, performance and recommendations

Gear Oil GL-4 meets the requirements of:

- API Service Categories GL-4

Service considerations

API GL-4 oils are designed for manual transmissions with light to heavy load and sliding forces, such as unsynchronized Transmission, certain synchromesh transmissions in on-road and off-road trucks. They provide more extreme pressure wear protection than API GL-3 oils, which are intended for mild service conditions, however, API GL-4 oils are not suitable for many manual transmissions with synchronizers - especially those made of softer yellow metals such as brass - because API GL-4 oils contain sulfur/phosphorus additives that can chemically attack and corrode the synchronizers, leading to premature wear and failure. Additionally, synchronisers of different materials require certain friction characteristics for efficient functioning of the synchronizer enabling smooth shifting, therefore, API GL-4 oils cannot be used in manual transmissions with synchronizers unless specified by the OEM.

Consider using dedicated manual Transmission fluids like Havoline Fully Synthetic Manual Transmission Fluid or Delo Syn-Trans or Delo Syn-AMT or Delo Syn-MTF range of products based on the manufacturer's recommendation.

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Typical test data

GEAR OIL GL-4	TEST METHOD	RESULTS	
SAE Grade		80W-90	85W-140
Product Code		516296	516297
Density at 15°C kg/L	ASTM D4052	0.8915	0.909
Pour Point, °C	ASTM D97	-35	-18
Flash Point, °C	ASTM D92	218	214
Kinematic Viscosity, cSt @ 40°C	ASTM D445	132	360
cSt @ 100°C	ASTM D445	14.0	25.9
Viscosity, Brookfield cP @ -12°C	ASTM D2983	-	70000
cP @ -26°C	ASTM D2983	93,700	-
Viscosity Index	ASTM D2270	105	100

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.

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