

Product	Sinopec Limited Slip Gear Oil ZLS
Summary	Product description Sinopec Limited Slip Gear Oil ZLS is a range of high-performance gear oils, available in three viscosity grades, formulated with high-quality mineral oils and an advanced multifunctional additive system. Designed especially to lubricate limited slip differentials, they meet the requirements of API GL-5 and are approved for use by the ZF Group.

Applications

Sinopec Limited Slip Gear Oil ZLS is suitable for use in:

- Heavy-duty limited slip differential bearings, axle shafts and final drives under severe extreme pressure and shock-loading service conditions, where API GL-5 performance is required.
- On-highway application in passenger cars, light- and heavy-duty trucks, buses and vans fitted with limited slip differentials.
- Off-highway application in equipment used in the construction, mining, quarrying and agricultural sectors.

Features and benefits

- Specific frictional characteristics designed meet the special lubrication requirements of limited slip differentials.
- Excellent extreme pressure and antiwear performance protects gears from abrasion and wear, even in severe high-load and shock-loading conditions, extending component life.
- Excellent thermal and oxidation stability minimise the build up of deposits, reducing wear, extending component life, and ensuring longer oil life.
- Protection against corrosion and rusting extends equipment life, and reduces maintenance costs.
- Good low-temperature fluidity ensures optimum lubrication, even in cold start-up conditions, and prevents start-up wear.
- Good antifoaming properties ensure optimum oil film thickness, protecting components against wear.
- Available in three viscosity grades to meet the specific needs of the application.
- Fully compatible with common seal materials, to extend seal life and prevent fluid leakage.

Product Data Sheet

Typical data

Sinopec Limited Slip Gear Oil ZLS			
SAE viscosity grade	85W-90	90	85W-140
Kinematic viscosity, ASTM D 445			
cSt @ 100°C	15.95	16.52	26.44
Viscosity index, ASTM D 2270	96	75	96
Water, wt%, ASTM D 6304	trace	trace	0
Pentane insolubles, wt%, ASTM D 893	0.03	0.04	0.26
Sulfated ash, wt%, ASTM D 874	0.08	0.08	0.08
Pour point, °C, ASTM D 97	-27	-27	-24
Flash point (COC), °C, ASTM D 92	202	180	216

These data are given as an indication of typical values, not as exact specifications.

Industry and OEM specifications

Sinopec Limited Slip Gear Oil ZLS meets the performance requirements of the following industry specifications:	
API	GL-5

Sinopec Limited Slip Gear Oil ZLS holds the following formal OEM approvals:	
ZF	TE-ML 05C, TE-ML 12C, TE-ML 21C (SAE 85W-90)

Accuracy of information

Data provided in this PDS is typical and subject to change as a result of continuing product research and development. The information given was correct at the time of printing. The typical values given are subject to variations in the testing procedures and the manufacturing process may also result in slight variations. Sinopec guarantees that its lubricants meet any industry and OEM specifications referred to on this data sheet.

Sinopec cannot be held responsible for any deterioration in the product due to incorrect storage or handling. Information on best practice is available from your local distributor.

Product and environmental safety

This product should not cause any health problems when used in the applications suggested and when the guidance provided in the Material Safety Data Sheet (MSDS) is followed. Please consult the MSDS for more detailed advice on handling; MSDSs are available from your local distributor. Do not use the product in applications other than those suggested.

As with all products, please take care to avoid environmental contamination when disposing of this product. Used oil should be sent for reclamation/recycling or, if not possible, must be disposed of according to relevant government/authority regulations.

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