

Product	<b>Sinopec LDI Axle Gear Oil</b>
Summary	<b>Product description</b> Sinopec LDI Axle Gear Oil is a range of high-performance gear oils, available in three viscosity grades. Formulated with highly refined, high viscosity index base oils and an advanced multifunctional additive system, it has outstanding thermal stability and oxidation stability, excellent load carrying capacity and offers extended oil drain intervals. Designed for the lubrication of heavily loaded gear sets operating in arduous conditions including shock loading and extended operating periods. Especially suited for use in machinery where GL-5 performance level is required as a minimum, for example in mining and heavy earthmoving equipment. Provides excellent performance in light- and heavy-duty applications and high-temperature operations. Meets the requirements of API GL-5 and MT-1, and a number of manufacturers' requirements.

## Applications

Sinopec LDI Axle Gear Oil is suitable for use in:

- Axles, final drives and power take-off units in off-highway vehicles used in various industries, including the construction, mining, forestry and agricultural sectors.
- Differentials, gearboxes and steering gears, where a hypoid oil is required.
- Manual transmissions without synchronisers (non-synchronised transmissions).
- Some industrial gear sets, where an extreme pressure (EP) gear oil is required.

## Features and benefits

- Excellent thermal and oxidation stability, minimise the build up of deposits and varnish, reducing wear, extending component life and ensuring longer oil life.
- Excellent extreme pressure, antiwear performance and good shear stability protect gears operating at high speeds and tooth pressures from abrasion, wear and welding, even in severe high-load and shock-loading conditions, extending component life.
- Protection against corrosion and rusting extends equipment life, and reduces maintenance costs.
- Good antifoaming properties ensure optimum oil film thickness, protecting components against wear, and minimise oil leakage.
- Available in three viscosity grades to meet the specific needs of the application.
- Multigrade oils can be used over a wider temperature range, and so can reduce the need for seasonal oil change thus reducing maintenance costs.
- Superior seal compatibility, fully compatible with common seal materials, to extend seal life and prevent fluid leakage.

## Typical data

SAE viscosity grade	80W-90	85W-90	85W-140
Kinematic viscosity, ASTM D 445			
cSt @ 40°C	149	193	406
cSt @ 100°C	15.68	17.15	29.49
Viscosity index, ASTM D 2270	108	95	101
Viscosity, Brookfield, ASTM D 2983			
cP @ -26°C	93,000	—	—
cP @ -12°C	—	16,500	55,000
Copper corrosion, 3 hours @ 121°C, ASTM D 130	1b	1b	1b
Pour point, °C, ASTM D 97	-33	-21	-18
Flash point (COC), °C, ASTM D 92	210	222	225
Foaming characteristics, ASTM D 892			
sequence I	0/0	0/0	0/0
sequence II	0/0	0/0	0/0
sequence III	0/0	0/0	0/0

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

## Industry and OEM specifications

Sinopec LDI Axle Gear Oil meets the performance requirements of the following industry specifications:	
API	GL-5, MT-1
GB <sup>1</sup>	13895
MIL	L-2105 E
SAE	J2360

<sup>1</sup> Note: 'GB' standards are the National Standards of the People's Republic of China.

Sinopec LDI Axle Gear Oil meets the performance requirements of the following OEM specifications:	
ArvinMeritor	0-76-A/B/D
Mack Trucks	GO-J
MAN	342 Type M2, M1
Scania	STO 1:0
ZF	TE-ML 05A, 07A, 08, 12E, 16B, 16C, 16D, 17B, 19B, 21A

# Product Data Sheet

## 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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