

Product	Sinopec GL-5 Heavy Duty Automotive Gear Oil
Summary	<p>Product description</p> <p>Sinopec GL-5 Heavy Duty Automotive Gear Oil is blended with highly refined base stock oils of high viscosity index and well-chosen sulphur and phosphor multi-functional additives by internationally advanced process. It can meet the strict application requirements for drive axle of various vehicle manufacturers, large scale military or civil mixed fleet, or construction machinery.</p>

Available sizes



1L/4L/5L



PAIL – 18L



DRUM – 200L



IBC – 1000L

Also
available
in bulk

Applications

Sinopec GL-5 Heavy Duty Automotive Gear Oil is suitable for use in:

- Axles, final drives and power take-off units in trucks, buses and off-highway vehicles used in various industries, including the construction, agricultural, forestry and mining sectors.
- Differentials, gear boxes and steering gears, where a hypoid oil is required.
- Some industrial gear sets, where an extreme pressure (EP) gear oil is required.

Features and benefits

- Excellent extreme pressure and anti-wear performance protects 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.
- Excellent thermal and oxidation stability minimise the build up of deposits and varnish, 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 anti-foaming properties ensure optimum oil film thickness, protecting components against wear, and minimise oil leakage.
- Available in six viscosity grades to meet the specific needs of the application.
- Multi-grade oils can be used over a wider temperature range, and so can reduce the need for seasonal oil change thus reducing maintenance costs.
- Fully compatible with common seal materials, to extend seal life and prevent fluid leakage

Product Data Sheet

Typical data

SAE viscosity grade	75W-90	80W-90	85W-90	85W-140	90	140
Kinematic viscosity, cSt @ 100°C, ASTM D 445	16.44	15.30	16.20	26.51	17.52	28.34
Kinematic viscosity, cSt @ 40°C, ASTM D 445	107.45	146.15	179.05	361.9	195.67	395.34
Viscosity index, ASTM D 2270	166	107	94	98	97	99
Flash point (COC), °C, ASTM D 92	200	220	228	236	235	230
Pour point, °C, ASTM D 97	-42	-30	-24	-21	-18	-15
Copper corrosion, 3 hours @ 121°C, ASTM D 130	1b	1b	1b	1b	1b	1b
Density @ 20°C, kg/l, ASTM D 4052	0.868	0.885	0.893	0.899	0.891	0.897
Brookfield Viscosity@-40°C/(mPa·s), ASTM D2983	90600	/	/	/	/	/
Brookfield Viscosity@-26°C/(mPa·s), ASTM D2983	/	87500	/	/	/	/
Brookfield Viscosity@-12°C/(mPa·s), ASTM D2983	/	/	17600	49800	/	/

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

Industry and OEM specifications

Sinopec GL-5 Heavy Duty Automotive Gear Oil meets the performance requirements of the following industry specifications:	
API	GL-5
GB ¹	13895
ASTM	D7450
MIL	MIL-L-2105D

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

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 (SDS) is followed. Please consult the SDS for more detailed advice on handling; SDSs are available from your local distributor. Do not use the product in applications other than those suggested.

Product Data Sheet

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.

The SINOPEC trademark is registered and protected.

Issued: January 2025

© Sinopec 2025

Sinopec GL-5 Heavy Duty Automotive Gear Oil