

Product	Sinopec General Purpose Automotive Lithium Base Grease
Summary	Product description Sinopec General Purpose Automotive Lithium Base Grease is a multipurpose long service life grease, available in two NLGI grades: 2 and 3. It is formulated with refined mineral base oils and rust and oxidation inhibitors, and is thickened with a mixed lithium/calcium 12-hydroxystearate soap thickener.

Applications

Sinopec General Purpose Automotive Lithium Base Grease is suitable for use in:

- Automotive wheel bearings, as a long service life grease.
- General lubrication of chassis points (e.g. shackles, tie rod ends, steering knuckles, control arms and king pins) of passenger cars, buses and trucks, electric motors and water pumps.

Features and benefits

- Lithium/calcium mixed soap thickener ensures good mechanical stability, so the grease structure does not soften or break down in service.
- Excellent water resistance means that the grease stays in place and is not washed or sprayed off in wet conditions, reducing the need for frequent re-application.
- Wide operating temperature range (from -30°C to $+120^{\circ}\text{C}$) ensures good high- and low-temperature performance.
- Good lubricity properties protect moving parts from wear, and extend component life.
- Protection against rusting and corrosion ensures long component life, and extends maintenance intervals.
- Good oxidation stability ensures longer grease life, providing optimum lubrication, extending equipment life and reducing maintenance requirements.
- NLGI 2 and 3 grades meet the requirements of wheel bearing applications; they adhere strongly to metal surfaces sealing them from dirt and abrasive materials, and so ensure longer relubrication intervals.
- This general purpose mixed soap grease is specially formulated to satisfy a wide range of automotive grease lubrication requirements with just a single product, so reducing inventory and storage costs.

Product Data Sheet

Typical data

Sinopec General Purpose Automotive Lithium Base Grease		
NLGI grade	2	3
Appearance, visual	light brown, homogeneous	light brown, homogeneous
Thickener type	Mixed lithium/calcium 12-hydroxystearate soap	Mixed lithium/calcium 12-hydroxystearate soap
Base fluid type	Mineral	Mineral
Cone penetration, ASTM D 217		
W×60, mm ⁻¹	275	238
W×100,000, % change from W×60	7.6	28.6
Dropping point, °C, ASTM D 566	195	195
Oil separation, 30 h @ 100°C, %, FTMS 791C-321.3	2.1	–
Oil separation, 24 h @ 100°C, %, FTMS 791C-321.3	–	1.5
Water washout, 1 h @ 79°C, %, ASTM D 1264	2	–
Car wheel bearing test 6 h @ 104°C, leakage, grams, ASTM D 1263	0.5	–
Corrosion prevention, 48 h @ 52°C, rating, ASTM D 1743	pass	pass
Copper corrosion, T2 copper strip, 24 h @ 100°C, rating, JIS K 2220.5.5	pass	pass

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

Industry and OEM specifications

Sinopec General Purpose Automotive Lithium Base Grease holds the following formal OEM approvals:	
Dongfeng Automobile Co., Ltd	Approved for use as an automotive wheel bearing grease
Liaoning Shuguang Automotive Co., Ltd	Approved for use as an automotive wheel bearing and chassis grease

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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