

Product	<b>Sinopec MP Grease</b>
Summary	<b>Product description</b> Sinopec MP Grease is a multipurpose grease with excellent mechanical and structural stability, long service life, good adhesivity and excellent resistance to corrosion and oxidation. Formulated with a lithium soap thickener and high-quality refined mineral oil, it contains rust and oxidation inhibitors to ensure excellent performance and long life, and a polymeric material to provide good adhesion to metal surfaces. It is available in NLGI grades 2 and 3.

## Applications

Sinopec MP Grease is suitable for use in:

- A wide range of industrial and automotive applications, where there is no requirement for load carrying properties.
- Lubrication of chassis points (e.g. shackles, tie rod ends, steering knuckles, control arms and king pins), electric motors and water pumps of passengers cars, buses and trucks.
- Automotive wheel bearings (with drum brake systems).
- General lubrication of roller bearings and sliding bearings operating under light load.
- Applications where the temperature range is from  $-20^{\circ}\text{C}$  to  $+120^{\circ}\text{C}$ .

## Features and benefits

- Lithium 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.
- 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.
- Added polymer ensures the grease adheres strongly to metal surfaces, sealing out water, dirt and abrasive materials, and so protecting the moving parts.
- Available in NLGI grades 2 and 3 to meet the requirements of different applications.

# Product Data Sheet

## Typical data

<b>Sinopec MP Grease</b>		
NLGI grade	2	3
Appearance, visual	Smooth, red, buttery	
Thickener type	Lithium	
Base fluid type	Mineral	
Kinematic viscosity, ASTM D 445		
cSt @ 100°C (range)	9–12	9–12
Cone penetration, ASTM D 217		
W×60, mm <sup>-1</sup>	278	232
W×100,000, mm <sup>-1</sup>	288	249
Dropping point, °C, ASTM D 566	195	190
Oil separation, 24 h @ 100°C, %, FTMS 791C-321.3	4.5	0.2
Low temperature torque (–15°C), Nm, ASTM D1478		
Starting torque, Nm	0.086	0.191
Running torque, Nm	0.054	0.019
Water washout, 1 h @ 38°C, %, ASTM D 1264	2	2
Oxidation stability, 100 h @ 99°C & 758 kPa, pressure drop, kPa, ASTM D 942	10	8
Copper corrosion, T2 copper strip, 24 h @ 100°C, rating, ASTM D 4048	pass	pass
Corrosion prevention, 48 h @ 52°C, rating, ASTM D 1743	pass	pass
Impurities, quantity/cm <sup>3</sup> , JIS K2220 5.9		
10 µm or larger	200	360
25 µm or larger	80	80
75 µm or larger	0	0
125 µm or larger	0	0

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

## Industry and OEM specifications

<b>Sinopec MP Grease meets the performance requirements of the following industry specification:</b>	
Sinopec	Q/SH303 242-2007

<b>Sinopec MP Grease holds the following formal OEM approval:</b>	
Wenzhou Xinmin Electromechanical Co. Ltd	Approved for use in enclosed gearboxes of PSD series industrial washing machines

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## 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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