

Product	Sinopec Multipurpose Lithium Grease
Summary	Product description Sinopec Multipurpose Lithium Grease (Natural) is a multipurpose grease with excellent mechanical and oxidation stability, good water resistance and corrosion protection properties. It is 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. Available in NLGI grades 1, 2 and 3.

Applications

Sinopec Multipurpose Lithium Grease (Natural) is suitable for use in:

- General lubrication of sliding bearings and other friction points of mechanical equipment, where there is no requirement for load carrying properties.
- Applications where the temperature range is from -20°C to $+120^{\circ}\text{C}$.

Features and benefits

- Lithium soap thickener ensures good mechanical stability, so that 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 rust 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.
- Adheres strongly to metal surfaces, sealing out dirt and abrasive materials, ensuring longer lubricating intervals.
- Available in NLGI grades 1, 2 and 3 to meet the requirements of different applications.

Typical data

Sinopec Multipurpose Lithium Grease (Natural)			
NLGI grade	1	2	3
Appearance, visual	Light yellow/brown, smooth, buttery		
Thickener type	Lithium		
Base fluid type	Mineral		
Kinematic viscosity, ASTM D 445			
cSt @ 100°C (range)	9–13	9–13	9–13
Cone penetration, ASTM D 217			
W×60, mm ⁻¹	324	285	230
W×100,000, mm ⁻¹	309	296	257
Oil separation, 24 h @ 100°C, %, FTMS 791C-321.3	9.7	1.5	0.0
Apparent viscosity, -15°C, 10 s ⁻¹ , Pas, GOST 7163	177	475	757
Dropping point, °C, ASTM D 566	194	194	193
Copper corrosion, T2 copper strip, 24 h @ 100°C, rating, JIS K 2220 5.5	pass	pass	pass
Corrosion prevention, 48 h @ 52°C, rating, ASTM D 1743	pass	pass	pass
Water washout, 1 h @ 38°C, %, ASTM D 1264	2	2	1
Oxidation stability, 100 h @ 99°C & 760 kPa, pressure drop, kPa, ASTM D 942	0.030	0.021	0.046
Impurities, quantity/cm ³ , JIS K 2220 5.9			
10 µm or larger	240	320	280
25 µm or larger	40	80	40
75 µm or larger	0	0	0
125 µm or larger	0	0	0

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

Industry and OEM specifications

Sinopec Multipurpose Lithium Grease (Natural) meets the performance requirements of the following industry specification:	
GB ¹	7324

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

Sinopec Multipurpose Lithium Grease (Natural) holds the following formal OEM approval:	
Ningbo Shenying Bearing Co., Ltd	For use in low noise bearings

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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