

Product	Sinopec Extreme Pressure Lithium Base Grease
Summary	Product description Sinopec Extreme Pressure Lithium Base Grease is an extreme pressure grease, formulated with a lithium soap thickener and high-quality mineral base oil. It contains rust and oxidation inhibitors, and extreme pressure and antiwear additives to ensure excellent performance and long life, even in severe service conditions where high temperatures, shock loading and water contamination are possible.

Applications

Sinopec Extreme Pressure Lithium Base Grease is suitable for use in:

- Bearings and gears of medium to heavily loaded mechanical equipment, where an extreme pressure/antiwear grease.
- Applications where the temperature range is from -20°C to 120°C .

Features and benefits

- Excellent extreme pressure and antiwear properties protect heavily loaded or shock-loaded bearings from wear, extending equipment life.
- Lithium soap thickener ensures good mechanical stability, so the grease structure does not soften or break down in service.
- High-quality base oil ensures a good oil film thickness is maintained, even in high-temperature applications, protecting components from wear.
- Excellent protection against rust and corrosion ensures long component life, and extends maintenance intervals.
- Good thermal and oxidation stability ensure longer grease life under high-temperature conditions, providing optimum lubrication, extending equipment life and reducing maintenance requirements.
- Grease adheres strongly to metal surfaces, sealing out dirt and abrasive materials, to ensure longer lubricating intervals.
- Available in NLGI grades 00, 0, 1, 2 and 3 to meet the requirements of specific applications

Typical data

Sinopec Extreme Pressure Lithium Base Grease					
NLGI grade	00	0	1	2	3
Appearance, visual	Smooth, puce, buttery				
Thickener type	Lithium				
Base fluid type	Mineral				
Kinematic viscosity, ASTM D 445					
cSt @ 100°C (range)	9–12	9–12	9–12	9–12	9–12
Cone penetration, ASTM D 217					
W×60, mm ⁻¹	414	374	323	293	248
W×100,000, mm ⁻¹	440	400	350	317	285
Dropping point, °C, ASTM D 566	173	178	184	196	198
Oil separation, 24 h @ 100°C, %, FTMS 791C-321.3	–	–	8.0	3.2	0.2
Corrosion prevention, 48 h @ 52°C, rating, ASTM D 1743	pass	pass	pass	pass	pass
Copper corrosion, T2 copper strip, 24 h @ 100°C, rating, ASTM D 4048	pass	pass	pass	pass	pass
Timken OK load, N, ASTM D 2509	156	156	156	156	158
Four ball EP, Pb, N, ASTM D 2596	618	618	618	618	618
Apparent viscosity, –10°C, 10 s ⁻¹ , Pas, GOST 7163	58	114	126	349	736
Impurities, quantity/cm ³ , JIS K 2220 5.9					
25 µm or larger	240	240	200	280	280
75 µm or larger	80	80	0	80	90
125 µm or larger	0	0	0	0	0

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

Industry and OEM specifications

Sinopec Extreme Pressure Lithium Base Grease meets the performance requirements of the following industry specifications:	
GB ¹	7323-94
Sinopec	Q/SH303 243-2004
Sinopec Extreme Pressure Lithium Base Grease holds the following formal industry approvals/licences:	

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

Sinopec Extreme Pressure Lithium Base Grease holds the following formal OEM approvals:	
Pan Steel Mine Company	Approved for use in cranes
Xuzhou Heavy-duty Machine Mill Company	Approved for use in cranes

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.

The SINOPEC trademark is registered and protected.

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