

Product	Sinopec EMALUBE-L Grease
Summary	Product description Sinopec EMALUBE-L Grease is a high-temperature, long-life, ashless grease. It is formulated with an advanced polyurea thickener, highly refined, high-viscosity base oils and a high-performance multifunctional additive system. It has an NLGI grade of between 0 and 1, which gives it excellent pumpability properties for use in the centralised lubrication systems of equipment operating in the steel industry.

Applications

Sinopec EMALUBE-L Grease is suitable for use in:

- Centralised lubricating systems of continuous casting machines, continuous rolling machines and other high-temperature friction points in the steel industry.
- Machinery operated by Baoshan Iron & Steel Co. and Anshan Iron & Steel Co., where it has been used successfully.
- Other high-temperature applications where a pumpable long-life grease is required.

Features and benefits

- Polyurea thickener ensures a high dropping point, which means that the grease can be used at higher temperatures in severe service applications (application temperature range is from -20°C to $+200^{\circ}\text{C}$), and also confers excellent mechanical stability so that the grease structure does not break down in service.
- Because the grease is 'ashless', deposits are not formed in bearings by breakdown at very high temperatures.
- High-viscosity base oil ensures a good oil film thickness is maintained, even in high-temperature applications, protecting components against wear.
- Excellent water resistance means that the grease stays in place and is not easily washed or sprayed off in wet conditions.
- Excellent protection against rusting and corrosion ensures long component life.
- Excellent thermal and oxidation stability (the thickener does not contain any metal ions to catalyse base oil oxidation) ensure longer grease life under high-temperature conditions, providing optimum lubrication, extending equipment life and reducing maintenance requirements.
- The NLGI grade between 0 and 1 ensures good pumpability and meets the requirements of a centralised lubricating system.

Product Data Sheet

Typical data

Sinopec EMALUBE-L Grease	
NLGI grade	0-1
Appearance, visual	Beige, homogeneous
Thickener type	Polyurea
Base fluid type	Mineral
Kinematic viscosity of base oil, ASTM D 445	
cSt @ 100°C	27.9
Cone penetration, ASTM D 217	
W×60, mm ⁻¹	345
W×100,000, mm ⁻¹	355
Dropping point, °C, ASTM D 566	260
Apparent viscosity (-10°C, 10 s ⁻¹), Pa s, JIS K 2220	215
Oil separation, 24 h @ 100°C, %, FTMS 791C-321.3	5.4
Copper corrosion, T2 copper strip, 24 h @ 100°C, ASTM D 4048	pass
Corrosion prevention, 48 h @ 52°C, ASTM D 1743	pass
Dynamic corrosion resistance, EMCOR (distilled water), rating, IP 220	1
Ash content, %, ASTM D 482	0.06
Roll stability (80°C, 4 h, 10% water), mm ⁻¹ , ASTM D 1831	376

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

Industry and OEM specifications

Sinopec EMALUBE-L Grease meets the performance requirements of the following industry specifications:	
Sinopec	Q/SH303 279-2006

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.

The SINOPEC trademark is registered and protected in Australia.

Issued: April 2012

© Sinopec 2012

60-Sinopec-EMALUBE-L-Grease