

Product	Sinopec L-QB300 Thermal Conduction Oil
Summary	Product description Sinopec L-QB300 Thermal Conduction Oil is formulated using a narrow-cut, highly refined mineral oil, which has excellent inherent thermal and oxidation stability, together with selected detergent, dispersant and antioxidant additives. It is recommended for use as a heat transfer fluid in closed, forced or unforced, circulation systems where the bulk oil temperature does not exceed 290°C.

Applications

Sinopec L-QB300 Thermal Conduction Oil is suitable for use in:

- Closed heat transmission systems with forced or unforced circulation operating at a maximum bulk temperature of 290°C.
- Drying and heating processes, such as those used in timber processing, textile finishing, food processing and the chemical industry.

Features and benefits

- The narrow-cut base oil has a high distillation point, which avoids pressure build up in the closed circulation system.
- Excellent thermal and oxidation stability ensure the oil does not crack, break down or produce deposits at high temperatures, extends the life of the oil, protects the system and reduces maintenance costs.
- The high flash point and low evaporation rate enable the oil to be used in closed systems up to 290°C.
- The high specific heat and thermal conductivity of the oil enable rapid heat transfer, improved operating efficiency and lower operating costs.
- Good fluidity at low temperatures ensures good oil circulation, even at low-temperature start-up.
- Good rust and corrosion resistance protect the system and reduce maintenance costs.
- Used paraffinic mineral oil can be recycled or disposed of more easily than naphthenic or synthetic fluids.

Product Data Sheet

Typical data

Sinopec L-QB300 Thermal Conduction Oil	
Kinematic viscosity, ASTM D 445	
cSt @ 40°C	31.4
cSt @ 100°C	5.38
Viscosity index, ASTM D 2270	105
Micro-Conradson Carbon Residue, %wt, ASTM D 4530	0.01
Copper corrosion, 3 hours @ 100°C, ASTM D 130	1b
Pour point, °C, ASTM D 97	-12
Flash point (COC), °C, ASTM D 92	226
Density @ 20°C, kg/l, ASTM D 4052	0.8685

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

Industry and OEM specifications

Sinopec L-QB300 Thermal Conduction Oil meets the performance requirements of the following industry specifications:	
DIN	51522-1998
GB ¹	23971-2009

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

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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