

Product	Sinopec L-DAB Air Compressor Oil
Summary	Product description Sinopec L-DAB Air Compressor Oil is a line of lubricants blended using highly refined mineral base oils and a selected additive system. It is designed for use in various stationary or mobile reciprocating air compressors in medium-duty applications, and is available in four viscosity grades, ISO 68, 100, 150 and 220.

Applications

Sinopec L-DAB Air Compressor Oil is suitable for use in:

- All types of reciprocating air compressors where a DIN 51506 VDL oil is required, for once-through cylinder lubrication and also to lubricate compressor crankcases.
- Single-stage and multi-stage reciprocating air compressors.
- Compressors that handle air, inert gases (such as nitrogen, argon, neon and helium), carbon dioxide, carbon monoxide and blast furnace gas.
- Stationary and mobile units.
- Some rotary vane and screw compressors.

Caution: not recommended for breathing air compressors.

Features and benefits

- Excellent lubricating properties protect moving compressor parts against wear and extend component life.
- The highly refined mineral base oil has outstanding thermal and oxidation stability and low carbon-forming tendency compared with conventional mineral oils, and this leads to good compressor cleanliness, reduced deposits and improved compressor efficiency, even when air discharge temperatures are high (up to 220°C).
- Reduced deposits in discharge lines, reducing the risk of fires and explosions.
- Good anti-rust and anticorrosion properties protect cylinders and discharge valves from rusting and corroding, enhancing equipment life and performance, and prolonging service intervals.
- Excellent water-separation characteristics ensure that condensed water vapour can easily be separated from the lubricant and prevent the formation of emulsions (which could block the oil/air separator (coalescer) in some compressors), therefore prolonging coalescer life, and reducing equipment downtime and maintenance costs.
- Improved oil quality leads to longer maintenance and overhaul intervals and extended oil drain intervals, compared with poorer quality products.

Product Data Sheet

Typical data

Sinopec L-DAB Air Compressor Oil				
ISO viscosity grade	68	100	150	220
Kinematic viscosity, ASTM D 445				
cSt @ 40°C	71.6	101.1	146.6	217.7
cSt @ 100°C	9.03	11.13	14.36	18.6
Viscosity index, ASTM D 2270	100	94	95	95
Aging characteristics (200°C, air, Fe ₂ O ₃), ISO 6617				
evaporation loss, %	9.45	5.76	3.51	–
Conradson carbon residue increase, %	1.46	1.14	1.93	–
Foaming characteristics, sequence 1, ASTM D 892	50/0	50/0	50/0	50/0
Neutralisation number, mg KOH/g, ASTM D 664	0.46	0.22	0.59	0.63
Rust prevention, rating, ASTM D 665				
distilled water	pass	pass	pass	pass
Copper corrosion, 3 hours @ 100°C, ASTM D 130	1b	1b	1b	1b
Sulfated ash, wt%, ASTM D 874	0.12	0.12	0.12	0.14
Pour point, °C, ASTM D 97	–15	–12	–7	–9
Flash point (COC), °C, ASTM D 92	237	270	258	278
Density @ 15°C, kg/l, ASTM D 4052	0.873	0.877	0.885	0.890

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

Industry and OEM specifications

Sinopec L-DAB Air Compressor Oil meets the performance requirements of the following industry specifications:	
DIN	51506 VDL
GB ¹	12691-90 (L-DAB)
ISO	6743-3A-DAB

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

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.

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