

Product	Sinopec L-DAH Oil Injection Rotary Air Compressor Oil
Summary	Product description Sinopec L-DAH Oil Injection Rotary Air Compressor Oil is a line of lubricants blended using hydrogenated base oils and an ashless additive system. It is designed for use in various kinds of moderate-duty, oil-injection rotary compressors (screw and vane types). It is available in three viscosity grades, ISO 32, 46 and 68.

Applications

Sinopec L-DAH Oil Injection Rotary Air Compressor Oil is suitable for use in:

- The rotors, bearings and gears of various kinds of moderate duty, oil-injection rotary compressor (screw and vane type), where a DIN 51506 VBL quality oil is required.
- Oil-flooded rotary compressors, especially screw compressors, in which the ISO 32 and 46 grades are recommended.
- Vane compressors, in which the ISO 68 grade is recommended.
- Lubrication and cooling of all types of centrifugal and lobe compressors, turbo- and high-speed pumps.

Caution: not recommended for use in breathing air compressors. Avoid mixing Sinopec L-DAH Oil Injection Rotary Air Compressor Oil grades with non-ashless compressor oils as this may be detrimental to their performance.

Features and benefits

- Excellent oxidation stability properties ensure that the oil does not break down or form deposits under the severe conditions encountered when oil and air come into close contact in rotary compressors, and so extend the life of the oil.
- Prevention of deposit formation on the rotating components of screw compressors and sliding parts of vane compressors, ensures high compressor efficiency is maintained.
- Ashless antiwear additive system protects the compressor's rotating and sliding surfaces from wear and so extends equipment life; and also minimises deposit formation.
- Excellent anti-rust performance protects metal surfaces against corrosion, and so prolongs service intervals.
- Excellent protection against foaming and good air release properties minimise lubricant carry-over to the discharge system, prevent air entrainment (which can lead to inadequate lubrication and equipment failure), and minimise foaming and overflow in tanks and reservoirs.
- Good 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 rotary vane and screw type compressors), therefore prolonging coalescer life, and reducing equipment downtime and maintenance costs.
- Oil drain intervals can be extended to 4,000 hours, even under conditions where there is a continuous air discharge temperature of up to 100°C.

Product Data Sheet

Typical data

Sinopec L-DAH Oil Injection Rotary Air Compressor Oil			
ISO viscosity grade	32	46	68
Kinematic viscosity, ASTM D 445			
cSt @ 40°C	32.96	45.60	68.00
cSt @ 100°C	5.94	7.37	9.21
Viscosity index, ASTM D 2270	126	125	111
NOACK volatility, 1 hour @ 250°C, wt%, ASTM D 5800	6.0	6.2	3.0
Foaming characteristics, sequence 1, ASTM D 892	50/0	50/0	50/0
Neutralisation number, mg KOH/g, ASTM D 974	0.25	0.25	0.27
Rust prevention, rating, ASTM D 665			
distilled water	pass	pass	pass
synthetic sea water	pass	pass	pass
Copper corrosion, 3 hours @ 100°C, ASTM D 130	1b	1b	1b
Water separability, time to 40/37/3 @ 54°C, minutes, ASTM D 1401	4	5	20
Oxidation stability, time to 2 mg KOH/g, hours, ASTM D 943	>9,000	>6,000	>4,000
FZG test (A/8.3/90), fail load stage, DIN 51345	11	11	11
Sulfated ash, wt%, ASTM D 874	<0.05	<0.05	<0.05
Pour point, °C, ASTM D 97	-18	-15	-12
Flash point (COC), °C, ASTM D 92	220	236	242
Density @ 15°C, kg/l, ASTM D 4052	0.866	0.877	0.883

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

Industry and OEM specifications

Sinopec L-DAH Oil Injection Rotary Air Compressor Oil meets the performance requirements of the following industry specifications:	
DIN	51506 VDL
ISO	6743-3A-DAH

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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