

Product	Sinopec AE Hydraulic Oil
Summary	Product description Sinopec AE Hydraulic Oil is a line of premium quality antiwear fluids formulated with highly refined high-quality mineral oils and a multifunctional additive system. Available in four ISO viscosity grades: 32, 42, 68 and 100. This line of oils, with high viscosity indexes and low pour points, has been designed to meet the requirements of moderate- to high-pressure hydraulic systems operating outdoors, or in areas where there is a wide variation in the ambient temperature.

Applications

Sinopec AE Hydraulic Oil is suitable for use in:

- Hydraulic applications in a wide variety of industrial, marine and mobile equipment.
- Vane and gear pumps operating under high loads, as recommended by pump manufacturers.
- Severe service hydraulic systems, employing axial and radial piston pumps, as recommended by pump manufacturers.

Features and benefits

- Outstanding antiwear properties protect and extend the life of hydraulic pumps and systems, even in severe service conditions.
- Good demulsibility and antifoaming properties together with fast air release ensure optimum operation of the hydraulic system.
- Excellent oxidation and thermal stability prevents varnish and deposit formation, keeping the system clean, and ensures oil has a long service life.
- Excellent rust and corrosion prevention properties and a high level of oil cleanliness, prevent damage to sensitive system components.
- Good hydrolytic stability and filterability ensure optimum product life and performance, and prevent filter blocking.
- Available in four ISO viscosity grades to ensure that the optimum viscosity can be selected to meet the needs of hydraulic systems operating at different temperatures.
- Fully compatible with the common seal materials found in hydraulic systems, to extend seal life and prevent fluid leakage.
- Low pour point ensures excellent hydraulic performance, even at low operating temperatures.

Typical data

Sinopec AE Hydraulic Oil				
ISO viscosity grade	32	46	68	100
Kinematic viscosity, ASTM D 445				
cSt @ 40°C	32.28	46.49	67.1	102.5
cSt @ 100°C	5.75	7.033	9.36	12.86
Viscosity index, ASTM D 2270	120	123	118	121
Air release at 50°C, mins, ASTM D 3427	3.1	2.6	8.8	–
Foaming characteristics, ASTM D 892				
sequence I	0/0	10/0	10/0	0/0
sequence II	10/0	10/0	20/0	0/0
sequence III	0/0	10/0	10/0	0/0
Neutralisation number, mg KOH/g, ASTM D 974	0.69	0.72	0.71	0.72
FZG test (A/8.3/90), fail load stage, DIN 51345	12	>12	>12	>12
Rust prevention, ASTM D 665				
distilled water	pass	pass	pass	pass
synthetic sea water	pass	pass	pass	pass
Copper corrosion, 3 hours @ 100°C, ASTM D 130	1b	1b	1b	1b
Water separability, ASTM D 2711	10 (54°C)	10 (54°C)	15 (54°C)	20 (82°C)
Pour point, °C, ASTM D 97	–39	–39	–33	–27
Flash point (COC), °C, ASTM D 92	238	246	248	260

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

Industry and OEM specifications

Sinopec AE Hydraulic Oil meets the performance requirements of the following industry specifications:	
DIN	51524 Pt 2
ISO	11158 (L-HM)
Sinopec	Q/SH 303 550-2010

Sinopec AE Hydraulic Oil meets the performance requirements of the following OEM specifications:	
Cincinnati Lamb	P-68 (ISO 32), P-69 (ISO 68), P-70 (ISO 46)
Eaton Vickers	M-2950-S (ISO 46)
Parker Denison	HF-0, HF-1, HF-2 (ISO 32, ISO 46, ISO 68)

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.

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