

<b>Product</b>	<b>Sinopec L-HS Ultra Low Temperature Hydraulic Oil</b>
<b>Summary</b>	<p><b>Product description</b></p> <p>Sinopec L-HS Ultra Low Temperature Hydraulic Oil is a line of premium quality antiwear lubricants and is blended using selected and highly refined high-quality base oils, combined with a multifunctional additive system and viscosity range from ISO Grade 32 and 46. This line of oils, with ultra high viscosity index and low pour point characteristics, suitable for outdoor machinery in severe cold region in winter, and moderate/high pressure hydraulic system in conditions of large ambient temperature variation or severe condition.</p>

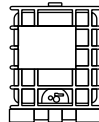
Available sizes



PAIL – 18L



DRUM – 200L



IBC – 1000L

Also  
available  
in bulk

## Applications

Sinopec L-HS Ultra Low Temperature 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.
- Outdoor machinery in severe cold region in winter.

## Features and benefits

- Improved low temperature fluidity, viscosity stability under wide range of temperatures.
- Advanced oxidation and thermal stability, ensuring longer service life.
- High-quality base oils combined with multifunctional additive technology provide outstanding antiwear properties, rust protection, low varnish and deposit formation, good demulsibility, good antifoam performance and fast air release performance, to protect and extend the life of hydraulic pumps and systems.
- High level of cleanliness, preventing contamination from damaging system components.
- Good hydrolytic stability and filterability, ensure optimum product life and performance, and prevent filter blocking.
- Fully compatible with common seal materials usually found in hydraulic systems, to extend seal life and prevent fluid leakage.

# Product Data Sheet

## Typical data

<b>Sinopec L-HS Ultra Low Temperature Hydraulic Oil</b>		
ISO viscosity grade	32	46
Kinematic viscosity, mm <sup>2</sup> /s , ASTM D 445 @40°C, @100°C	32.59 7.727	47.4 10.19
Viscosity index, ASTM D 2270	220	210
Air release at 50°C, min, ASTM D 3427	2.1	2.6
Foam, ASTM D 892 Sequences I Sequences II Sequences III	0/0 0/0 10/0	10/0 10/0 10/0
Neutralisation number, mg KOH/g, ASTM D 974	0.73	0.78
FZG test (A/8.3/90), fail load stage, DIN 51345	12	>12
Rust prevention, ASTM D 665 Procedure B	Pass	Pass
Copper corrosion, 3 hours @ 100°C, ASTM D 130	1b	1b
Water separation, ASTM D 2711 time to 3 mL emulsion at 54°C	10	13
Pour point, °C, ASTM D 97	-48	-42
Flash point (COC), °C, ASTM D 92	190	210

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

## Industry and OEM specifications

<b>Sinopec L-HS Ultra Low Temperature Hydraulic Oil meets the performance requirements of the following industry specifications:</b>	
GB <sup>1</sup>	11118.1-2011 (L-HS)
ISO	11158 (L-HS)

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

<b>Sinopec L-HS Ultra Low Temperature Hydraulic Oil meets the performance requirements of the following OEM specifications:</b>	
Fives Cincinnati	P-68 (ISO 32), P-70 (ISO 46)
Eaton	Eaton 03-401-2010

# 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.

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