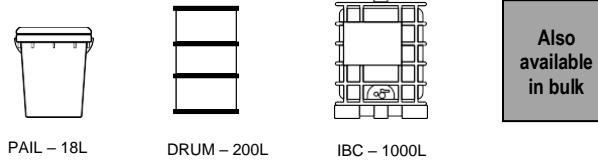


Product	<b>SINOPEC L-HM HPC™ Hydraulic Oil</b>
Summary	<p><b>Product description</b></p> <p>Sinopec L-HM HPC™ Hydraulic Oils are high performance premium antiwear hydraulic fluids for industrial applications with cleanliness at NAS 7 or better. The Group II base oils combining with a multifunctional additive system provide outstanding wear protection, extended service life and a much-improved system efficiency. This specialized line of oils has been designed to meet the requirements of major hydraulic pump OEMs for most of the industrial and marine applications as well as in mobile machinery hydraulic power applications.</p>

Available sizes



## Applications

SINOPEC L-HM HPC™ Series is suitable for use in:

- A wide variety of industrial and manufacturing hydraulic applications
- Various mobile equipment and off-highway vehicles such as cranes, excavators and forklifts with no drastic ambient temperature changes.
- Marine applications where ISO HM hydraulic category is required.
- Vane and gear pumps operating under high loads, as recommended by pump manufacturers.
- Heavy duty hydraulic systems, employing axial and radial piston pumps, as recommended by pump manufacturers.

## Features and benefits

- Outstanding antiwear property and corrosion protection extend metal component life.
- Excellent oxidation resistance and good keep-clean properties reduce varnish and system sludge deposits, protect and extend the life of hydraulic pumps and systems.
- Superior demulsibility, good antifoam and fast air-release properties maintain system reliability and reduce the risk of corrosion where harsh working conditions and humid environments are unavoidable.
- Good hydrolytic stability and filterability ensure optimum product performance and prevent filter blockage. High cleanliness property (NAS 7 or better at the point of filling) helps to minimize the impact of solid contaminants, extends both filter life and service life.
- Fully compatible with common seal materials usually found in hydraulic systems extends seal life and prevent fluid leakage.

# Product Data Sheet

## Typical data

<b>Sinopec L-HM HPC™ Hydraulic Oils</b>			
ISO viscosity grade	32	46	68
Kinematic viscosity, ASTM D 445			
cSt @ 40°C	32	46	66
cSt @ 100°C	5.5	7.1	8.7
Viscosity index, ASTM D 2270	110	110	105
Air release at 50°C, mins, ASTM D 3427	1.7	6	3.5
Foaming characteristics, sequences 1, 2 and 3, ASTM D 892	20/0 20/0 20/0	20/0 10/0 20/0	20/0 15/0 20/0
Acid number, mg KOH/g, ASTM D 664	0.75	0.65	0.60
FZG test (A/8.3/90), fail load stage, DIN 51345	12	12	12
Rust prevention, ASTM D 665			
distilled water	pass	pass	pass
synthetic sea water	pass	pass	pass
Copper corrosion, 3 hours @ 100°C, ASTM D 130	1a	1a	1a
Water separability, ASTM D 2711	6 (54°C)	10 (54°C)	12 (54°C)
Pour point, °C, ASTM D 97	-33	-27	-21
Flash point (COC), °C, ASTM D 92	226	248	242
TOST, hours, ASTM D943	>5000	>5000	>5000
NAS 1638 class	≤7	≤7	≤7

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

## Industry and OEM specifications

<b>Sinopec L-HM HPC Antiwear Hydraulic Oil meets the performance requirements of the following industry specifications:</b>	
DIN	51524 Pt 2
GB <sup>1</sup>	11118.1 -2011(L-HM, High Pressure)
ISO	11158 (L-HM)

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

<b>Sinopec L-HM HPC Antiwear Hydraulic Oil meets the performance requirements of the following OEM specifications:</b>	
Cincinnati	P-68 (ISO 32), P-69 (ISO 68), P-70 (ISO 46)
Parker Denison	HF-0, HF-1, HF-2 (ISO 32, ISO 46, ISO 68)
Eaton Vickers	M-2950-S (ISO 46)

# 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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SINOPEC L-HM HPC Hydraulic Oil