

Product	SINOPEC L-HV Low Temperature Anti-Wear Hydraulic Oil
Summary	<p>Product description</p> <p>SINOPEC L-HV Low Temperature Anti-Wear Hydraulic Oil is a line of premium quality anti-wear lubricants blended using highly refined mineral oils, combined with a multifunctional additive system and available in a wide viscosity range from ISO Grade 15 to 100. This line of hydraulic oils, with high viscosity index and low pour point characteristics, has been designed to meet the requirements of moderate-to-high pressure hydraulic systems operating outdoors in cold regions, or where there is a wide variation in ambient temperature.</p>

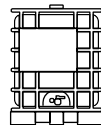
Available sizes



PAIL – 18L



DRUM – 200L



IBC – 1000L

Also available in bulk

Applications

SINOPEC L-HV Low Temperature Anti-Wear Hydraulic Oil is suitable for use in:

- Moderate-to-high pressure hydraulic systems operating outdoors in severe cold regions or where there is a wide variation in ambient temperature, such as in the marine, construction, mining and oil industries.
- Vane and gear pumps operating under high pressure and low temperatures, as recommended by pump manufacturers.
- Severe service hydraulic systems, employing axial and radial piston pumps, as recommended by pump manufacturers.

Features and benefits

- High viscosity index combined with low pour point ensures excellent low-temperature fluidity and provides excellent low-temperature start up, protecting the hydraulic system from wear and extending service life of equipment.
- Excellent shear stability properties ensure good oil film thickness is maintained in severe operating conditions, protecting the components of the hydraulic system.
- High-quality base oils combined with multifunctional additive technology provide anti-wear properties, rust protection, low varnish and deposit formation, good demulsibility, anti-oxidation, good anti-foaming and fast air release properties, to protect and extend the life of hydraulic pumps and systems.
- Good hydrolytic stability and filterability, ensure optimum product life and performance, and prevent filter blocking.
- The wide selection of viscosity grades ensures that the optimum viscosity can be used for hydraulic system operating temperature.
- Fully compatible with common seal materials usually found in hydraulic systems, to extend seal life and prevent fluid leakage.
- High cleanliness property (NAS 7 or better at the point of filling) minimizes the impact of solid contaminants on filter blocking, extends both filter and equipment service life

Typical data

SINOPEC L-HV Low Temperature Anti-Wear Hydraulic Oil							
Viscosity Grade	15	22	32	46	68	100	Test Method
Kinematic Viscosity							
cSt @ 40°C	16.38	21.93	33.39	46.49	64.26	99.57	ASTM D445
cSt @ 100°C	4.01	5.11	6.60	8.33	10.54	14.18	
Viscosity Index	149	173	157	156	154	146	ASTM D2270
Air Release Time @ 50°C, mins	1.1	2.0	3.3	4.1	6.4	6.3	ASTM D3427
Foaming (Tendency/Stability), mL/mL							
Seq.I	20/0	10/0	20/0	20/0	10/0	10/0	ASTM D892
Seq.II	20/0	15/0	10/0	20/0	20/0	15/0	
Seq.III	20/0	10/0	20/0	20/0	10/0	10/0	
Acid Number, mg KOH/g	0.65	0.63	0.57	0.59	0.60	0.61	ASTM D664
Anti-Rust, Procedure B	Rust-Free	Rust-Free	Rust-Free	Rust-Free	Rust-Free	Rust-Free	ASTM D665
Copper Corrosion @ 100°C for 3hrs	1a	1a	1a	1a	1a	1a	ASTM D130
Water Separability (40-37-3,54°C), mins	5	6	7	9	14	-	ASTM D1401
Water Separability (40-37-3,82°C), mins	-	-	-	-	-	11	ASTM D1401
Pour Point, °C	-45	-42	-39	-37	-35	-39	ASTM D97
Flash Point (COC), °C	196	198	220	248	252	258	ASTM D92
FZG Test (A/8.3/90), Fail Load Stage	12	12	12	12	12	12	ASTM D5182

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

Industry and OEM specifications

SINOPEC L-HV Low Temperature Anti-Wear Hydraulic Oil meets the performance requirements of the following industry specifications:	
ISO	11158 (L-HV)
DIN	51524 Part 3 (HVLP)
GB	11118.1 (L-HV)

SINOPEC L-HV Low Temperature Anti-Wear Hydraulic Oil meets the performance requirements of the following OEM specifications:	
Danfoss Vickers (Previously Eaton)	brochure 03-401-2010 (VG 32, VG 46, VG 68)
Parker-Denison	HF-0, HF-1, HF-2 (VG 32, VG 46, VG 68)
Bosch Rexroth	RDE 90235 (VG 32, VG 46, VG 68)
Cincinnati	P-68 (VG 32), P-69 (VG 68), P-70 (VG 46)

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 Safety Data Sheet (SDS) is followed. Please consult the SDS for more detailed advice on handling; SDSs 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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