

Cryogenic hydraulic fluid(L-HV)

● Performance Overview

Maxtop low temperature hydraulic oil is made of highly refined low freezing point and high viscosity index oil as the base oil, adding high-quality viscosity index improvers and additives such as antioxidant, anti-wear, anti-rust, demulsification and anti-foam, and adopting advanced production technology. The product has excellent low temperature flow and anti-wear performance, ensuring that the hydraulic system starts quickly and runs stably at low temperatures, while meeting the lubrication needs of high temperature conditions.

● Features

01

It has excellent anti-wear

02

Anti-rust, anti-corrosion and anti-oxidation properties

03

Good air release and anti-foaming properties

04

Excellent adaptability of seals

05

Two-stage protection: Adapt to cold areas and the environment with large temperature changes, provide low temperature start-up performance and high temperature protection.

06

Oil-water separation: fast separation of water to prevent lubrication failure caused by emulsification.



● Application Scenario

Cold operation: Excavators, cranes, loaders in the winter cold area or high altitude cold zone construction.

Extreme conditions: continuous operation of mining and open-pit mining equipment in an environment with a large temperature difference between day and night.

Flight control: precise operation of the aircraft hydraulic system in the stratospheric low temperature environment;

Ground support: Drive of airport deicing equipment and low-temperature fuel filling system.

Cold storage equipment: forklifts, shuttle trucks, shelf lifts in the cold storage below -25°C frequent operation.

Refrigerated transport: low temperature lubrication of refrigerated truck hydraulic tailplate and loading and unloading platform.

Low temperature experiment: hydraulic transmission of low temperature chamber in scientific research laboratory;

Cold storage processing: food quick-freezing equipment, low temperature grinder hydraulic system.

Cryogenic hydraulic oil performance index(L-HV)

Project	Quality indicators					
Viscosity class	15	22	32	46	68	100
Flash point (opening) /°C is not less than	125	175	175	180	180	190
Kinematic viscosity (40°C)/(mm ² /s)	13.5~16.5	19.8~24.2	28.8~35.2	41.4~50.6	61.2~74.8	90~110
When the kinematic viscosity is 1500mm ² /s, the temperature /°C is not higher than that	-30	-24	-18	-12	-6	0
Viscosity index is not less than	130	140	140	140	140	140
Pour point /°C is not higher than	-36	-36	-33	-33	-30	-21
Moisture (mass fraction) /% is not greater than	vestige					
Copper corrosion (100°C, 3h)/grade is not greater than	1					
Liquid phase rust (24h)	rustless					
Foam property (foam tendency/foam stability)/ (mL/mL)						
Procedure I(24 ° C) is not greater than	150/0					
Procedure II (93.5°C) is not greater than	75/0					
Procedure III (post 24°C) is not greater than	150/0					
Resistance to emulsification (time to 3ml) /min						
54 ° C is not greater than	30					
82 ° C is not greater than	30					

