

Refrigeration oil (L-DRC/B)

● Performance Overview

Refrigeration oil L-DRC/B is a high-quality lubricant designed for refrigeration equipment. It has excellent chemical and thermal stability and is suitable for various types of refrigeration compressors, especially in systems using halogenated hydrocarbon refrigerants. It can ensure the stable operation of the compressor, reduce maintenance costs, and extend the service life of the equipment. It is made of deeply refined mineral oil and added with antioxidants and anti-wear agents.



● Features

01

Chemical stability: L-DRC/B refrigeration oil remains stable under high temperature and contact with refrigerant, is not easy to decompose, and reduces the formation of sludge and sediment.

02

Thermal stability: In high temperature environments, the oil can maintain its performance and is not easy to deteriorate, which is crucial for the long-term operation of the compressor.

03

Compatibility: Compatible with a variety of halogenated hydrocarbon refrigerants (such as R134a, R22, etc.), no chemical reaction will occur, ensuring the safe operation of the system.

04

Anti-foaming property: It has good anti-foaming property, which reduces the generation of foam and avoids insufficient lubrication and compressor failure caused by foam.

● Application Scenario

- (1) Refrigeration compressors: Refrigeration compressors applicable to refrigeration compressors using halogenated hydrocarbon refrigerants, including but not limited to piston, screw and centrifugal compressors.
- (2) Industrial refrigeration: widely used in industrial refrigeration systems, such as cold storage, cold chain logistics, cooling systems in chemical production, etc.
- (3) Air conditioning system: suitable for large central air conditioning systems and commercial air conditioning equipment.
- (4) Special environment: Suitable for environments with special requirements for refrigeration oil, such as places with high humidity and large temperature changes.
- (5) Fully enclosed air conditioning refrigeration compressors and other freezing and refrigeration equipment.

Refrigeration oil (L-DRC/ B) performance indicators

Project		Quality indicators					
ISP viscosity grade		22	32	56	100		
Kinematic viscosity, mm ² /s 40°C		19.8~24.2	28.8~35.2	52.0~58.0	90.0~110		
Color, size	not greater than	1.0		1.5	2.5		
Flash point (open), °C	not less than	160	165	180	190		
Pour point, °C	not higher than	-42	-39	-30	-25		
Flocculation point, °C	not higher than	-47	-45	-42	-35		
Acid value, mg (KOH) / g	not more than	0.03					
Rust test (copper sheet, 100°C, 3h), level	not more than	1					
Compatibility with refrigerantsTwo-layer separation temperature (oil/Freon 22 ratio is 20/80), No higher than		+5		+12	+35		
Breakdown voltage, KV not less than		30					
Trace amount of water, mg/kg not more than		30					
Mechanical impurities, % (mass fraction)		none					
Chemical stability with refrigerants (R-22, 175°C, 14 days) color, size no greater than		3.0		5.0			
Foamability mL/mL							
24°C	No more than					50/0	
93.5°C	No more than					50/0	
After 24°C	No more than					50/0	
Extreme pressure performance (Francis A method)							
Failure load, 1bf	not less than	500	550	600	650		

