

4524 Synthetic Refrigeration Compressor Oil

4524 synthetic refrigeration compressor oil is refrigeration system used lubricant blended with synthetic base oil and multi-functional additives such as extreme pressure, anti-oxidizer, anti-corrosion agent and so on.

Advantages

- ⊙ Outstanding thermal oxidation stability, preventing oil from damage in high temperature condition
- ⊙ Good material adaptability, preventing oil from leaking out of system in application
- ⊙ Excellent intersolubility of refrigerants, ensuring good thermal efficiency of refrigeration system
- ⊙ Outstanding high/low temperature performance, ensuring normal operation of system in wide temperature range
- ⊙ Good lubricity, protecting refrigeration compressor from wear
- ⊙ Excellent biological degradability, reducing environment pollution
- ⊙ Outstanding over-all performance, ensuring long term normal operation of refrigeration system

Performance

The product meets the following specifications:

- ⊙ Q/SH303 178-2004 (2007)

Applications

- ⊙ Widely used to lubrication of refrigeration system taking R134a, R407c and R410 as refrigerants in various industries, civil refrigeration and refrigeration system of automotive air conditioner
- ⊙ Applied temperature range: $-40^{\circ}\text{C}\sim 150^{\circ}\text{C}$, possibly reaching 170°C in short time

Typical properties

Items	4524 synthetic refrigeration compressor oil				
	15	32	46	68	100
Kinematic viscosity (40°C), mm ² /s	15.1	32.3	45.8	67.5	98.7
Neutralization number, mgKOH/g	0.05	0.05	0.05	0.05	0.05
Flash point (COC), °C	210	230	240	250	265
Pour point, °C	-48	-52	-45	-37	-31
Water content, ppm	65	65	65	65	65
Corrosion (T ₂ Cu, 100°C, 3h), level	1b	1b	1b	1b	1b
Critical solution temperature with R134a, °C	-46	-33	-25	-23	-12