

4523 Synthetic Refrigeration Compressor Oil

4523 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. Belonging to DRB grade according to ISO 6743/3B classification standard, its index reaches and even exceeds KC refrigeration compressor oil level of DIN 51503-88 specification.

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 low temperature performance, extremely low pour point, low flocculation point of Freon, no wax formed but perfect fluidity under low temperature, ensuring application of system under various low temperature conditions
- ⊙ Outstanding high/low temperature performance, ensuring normal operation of system in wide temperature range
- ⊙ Good lubricity, protecting refrigeration compressor from wear
- ⊙ Outstanding over-all performance, ensuring long term normal operation of refrigeration system

Performance

The product meets the following specifications:

- ⊙ Q/SH303 177-2004 (2007)

Applications

- ⊙ Widely used to refrigeration system of multiple refrigerants (e.g., R11, R12, R23 and ammonia, etc) major application compressors are of rotary screw, reciprocating and rotary vane types including refrigerator, freezer, air conditioner, automobile air conditioner, central air conditioner, refrigeration van, water chiller, and various refrigeration compressors such as enclosed, semi-enclosed or open types for refrigeratory
- ⊙ Applied temperature range: $-50^{\circ}\text{C}\sim 150^{\circ}\text{C}$, possibly reaching 170°C in short time

Typical properties

Items	4523 synthetic refrigeration compressor oil				
	32	46	56	68	100
Kinematic viscosity (40°C), mm ² /s	31.8	46.2	56.1	67.8	98.5
Neutralization number, mgKOH/g	0.02	0.02	0.03	0.03	0.02
Flash point (COC), °C	210	213	220	230	234
Pour point, °C	-55	-55	-52	-50	-45
Water content, ppm	28	28	29	29	30
Corrosion (T ₂ Cu, 100°C, 3h), level	1b	1b	1b	1b	1b
Insulation strength, kV	35	35	35	35	35