

## 4523 Synthetic Refrigeration Compressor Oil

SINOPEC 4523 synthetic refrigeration compressor oil is refrigeration system used lubricant blended with synthetic base oil and plural highly refined additives such as extreme pressure agent, anti-oxidizer, anti-corrosion agent and so on. Belonging to DRB grade as per ISO 6743/3B classification standard, its index reaches and even exceeds KC refrigeration compressor oil level of DIN 51503-88 specification.

### Advantages

- ⊙ Outstanding heat oxidation stability, preventing oil from damage in high temperature condition
- ⊙ Good material adaptability, preventing oil from leaking out of system during operating
- ⊙ Excellent low temperature property, 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 property, ensuring normal operation of system in wide temperature range
- ⊙ Good lubricity, protecting refrigeration compressor from wear
- ⊙ Outstanding over-all property, ensuring long term normal operation of refrigeration system

### Performance Specification

The product meets the following specifications:

- ⊙ Q/SH303 177—2004

### Applications

- ⊙ Widely used in refrigeration system of multiple refrigerants (e.g. R11, R12, R23 and ammonia, etc) major application compressors are of 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℃ ~ 150℃, possibly reaching 170℃ for short period of time

### Typical Properties

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

## Similar Foreign Products

Manufacturer	Trademark	Manufacturer	Trademark
Agip	TER	Shell	Clavus Oil
BP	Energol LPT	Sun	Suniso
Caltex	Capella oil WF	Total	Lunatic
Castrol	Icematic	Union	Tuvaco
ELF	Friga	Idemitsu Kosan	ゲフニーハメチシクオイル
Esso	Zerice	Showa-shell	昭石R M
Mobil	Gargoyle Arctic Oil	Joint Oil	共石フレール
PetroFINA	Purfrigor	Daikyo Oil	パイオルフロイル

## Special Attentions

- ⊙ Do not mix with other lubricant resulting in reduction due to possible physical or chemical reactions between different oil
- ⊙ Close the cap in time after each use, keeping moisture, dust away
- ⊙ Material compatibility test should be carried out when used in lubricated part in contact with non-metallic material, such as rubber, plastic and paint

## Packing

- ⊙ To be packed with 4L, 200L iron barrels or by customers