

4524 Synthetic Refrigeration Compressor Oil

SINOPEC 4524 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.

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 intersolubility of refrigerants, ensuring good heat efficiency of refrigeration system
- ⊙ Outstanding high/low temperature property, 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 property, ensuring long term normal operation of refrigeration system

Performance Specification

The product meets the following specifications:

- ⊙ Q/SH PRD328—2010

Applications

- ⊙ Suitable for 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℃ ~ 150℃, and 170℃ for short period of time

Typical Properties

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

Similar Foreign Products

- ⊙ Equivalent to synthetic refrigeration compressor oil such as Emkarate RL of ICI, Icematic SW of CASTROL, Aratic EAL series of EXXON-MOBIL

Application Examples

- ⊙ A company located in Henan, China, has imported a Japanese refrigeration unit using refrigerant R134a, 4524 (68) is used to replace the imported one since 2004
- ⊙ A company located in Daqing, China, has applied 4524 (46) oil instead of original YORK oil for YORK-K industrial refrigeration unit using refrigerant R134a since the beginning of 2006, the result is quite good
- ⊙ A company located in Chongqing, China, has replaced Icematic SW100 synthetic refrigeration compressor oil of CASTROL with our product 4524 (100) since 2003

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
- ⊙ It is normal and shall not affect application in case of darkened color after exposed to light or under long term high temperature

Packing

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