SINOPEC

4502 Synthetic Compressor Oil

SINOPEC 4502 synthetic compressor oil is 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 heat conductive property, reducing operation temperature of air compressor
◎ Outstanding coking and deposit resistant properties, enhancing safety of air compressor working in high temperature condition
◎ Outstanding high/low temperature property, ensuring normal operation of system in wide temperature range
◎ Good lubricity, protecting compressor from wear
◎ Outstanding over-all property, ensuring a long service life of 4000hrs～8000hrs of compressor system

Performance Specification

The product meets the following specifications:
◎ Q/SH PRD327—2010

Applications

◎ Widely used in iron, cement, chemical, machinery and electronic industries, for the lubrication of small/moderate/large sized single/multi-stage (s) reciprocating or rotary type air compressor wherein No.32～68 for low/moderate pressure rotary compressor as well as small/moderate sized reciprocating compressor and No.100～220 for moderate/high pressure reciprocating compressor and large-sized rotary compressor
◎ Applied temperature range: -40℃～110℃ for rotary compressor and -35℃～200℃ for reciprocating compressor, possibly reaching 220℃ for short period of time

Typical Properties

Items	4502 synthetic compressor oil				
	32	46	68	100	150
Kinematic viscosity (40℃), mm^2/s	32.0	46.3	67.5	98.4	149.3
Neutralization value, mgKOH/g	0.16	0.20	0.17	0.19	0.18
Flash point (open), ℃	216	230	242	250	248
Freezing point, ℃	-59	-55	-52	-45	-45
Anti-emulsion property, min	5	4.8	2.1	8	3.5
Corrosion (T$_2$Cu, 100℃, 3hrs), level	1b	1b	1b	1b	1b

Carbon residue, % (m/m)
  Before oxidation
  After oxidation
	
	0.05
	0.08
		
		0.02
		0.06
			
			0.06
			0.17
				
				0.05
				0.14
					
					0.08
					0.28

Technical Certification

◎ It is listed in the Product Manual of Hefei General Machinery Research Institute

◎ Technical recognition for matching material by Nanjing Ingersoll Rand Compressor Ltd and Enric (Bengbu) Compressor Co., Ltd

Similar Foreign Products

◎ As excellent as RARUS 800 series, ANDEROL 400, 500, S series of EXXON-MOBIL; CORENA D, R series of SHELL; Synthetic series of ESSO, COMPAIR special oil, ATLAS special oil, INGERSOLL-RAND special oil, Fusheng special oil

Application Examples

◎ A petrochemical plant located in Tianjin, China, replaced the original special oil with 4502 (46) for its COMPAIR twin screw compressor, extending the oil-change period for more than 2 times longer

◎ A cement plant located in Changchun, China, successfully replaced the original oil INGERSOLL-RAND ULTRA COOLANT with 4502 (46) for its INGERSOLL-RAND twin screw compressor

◎ A petrochemical plant located in Guangdong province, China, replaced the original special oil with 4502 (32) for its INGERSOLL-RAND centrifugal compressor, the result is as good as before

◎ QUINCY twin screw compressor of a textile mill located in Chongqing, China, has operated with lower working temperature since original special oil was replaced by 4502 (46), and the oil-change period was prolonged for 100%

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