

# NEXT POE

## POE Refrigeration Compressor Oil (series 422)

Series POE is a next generation POE refrigeration lubricant, that has been specifically formulated for use with both conventional HFC refrigerants and the new low GWP HFO refrigerants.

This highly oxidatively and thermally stable formulation provides a long oil life and provides excellent protection for critical system components.



### Applications

- Reciprocating compressors
- Rotary screw compressors
- Centrifugal compressor
- Scroll compressor
- Rotary vane compressor

### Gases

- R-32, R-1234yf, R-134a, R-448a, R-449a, R-455a, R-450, R-134a, R-404a, R-410a, R-417a, R-422a, R-422d, R-427a, R-507, R-508b, R-513a

### Benefits

- Long fluid life
- Formulated for use with HFO and HFC refrigerants
- High viscosity index to ensure excellent fluidity and lubricity
- Excellent low temperature stability
- Excellent wear protection
- Highly stable formulation, ideal for environments susceptible to water contamination



## Specifications

ISO Viscosity Grade	<b>22</b>	<b>32</b>	<b>46</b>	<b>55</b>	<b>68</b>	<b>85</b>	<b>100</b>
Viscosity @ 40 °C (cSt)	23	33	45	54	69	85	99
Viscosity @ 100 °C (cSt)	4,7	6,1	7,7	8,8	10,1	11,4	12,2
Viscosity Index	124	132	140	143	130	122	115
Density g/cm <sup>3</sup> @ 15 °C	0,992	0,994	0,996	0,997	0,988	0,99	0,978
Pour Point (°C)	-57	-57	-54	-52	-48	-42	-39
Flash Point (°C)	243	244	246	247	250	250	253
Copper Strip Corrosion (100 °C for 3 h)	1a	1a	1a	1a	1a	1a	1a
Colour (ASTM 1500)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
Total Acid Number (mg KOH/g)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

ISO Viscosity Grade	<b>120</b>	<b>150</b>	<b>170</b>	<b>220</b>	<b>320</b>	<b>380</b>
Viscosity @ 40 °C (cSt)	120	150	168	215	310	375
Viscosity @ 100 °C (cSt)	13,9	16,4	17,7	21,5	26,3	25,4
Viscosity Index	113	116	116	120	111	89
Density g/cm <sup>3</sup> @ 15 °C	0,977	0,981	0,982	0,983	0,966	0,97
Pour Point (°C)	-36	-36	-36	-34	-22	-18
Flash Point (°C)	260	272	277	287	280	290
Copper Strip Corrosion (100 °C for 3 h)	1a	1a	1a	1a	1a	1a
Colour (ASTM 1500)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
Total Acid Number (mg KOH/g)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Values included in this TDS are typical and do not constitute a specification. Manufacturing specifications are available upon request. Minimum operating temperatures are based on low temperature viscosity measurements and refrigerant miscibility data. Consult a Next Lubricants representative for operations below the pour point of the oil. It is recommended that routine oil analysis tests be performed to properly assess the condition of the oil. Verify that this TDS is the most UpToDate version, specifications are subject to change due to possible formulation and raw material changes.

