

NEXT 744-POE

CO₂ POE Refrigeration Oil (744 Series)

NEXT 744-POE has been formulated specifically for use in CO₂ refrigeration systems. NEXT 744-POE combines synthetic esters with an advanced anti-wear additive package to provide a high level of wear protection. This is essential in CO₂ refrigeration systems due to the inherent extreme pressures and temperatures.



Applications

- Reciprocating compressors
- Rotary screw compressors
- Trans critical, Sub-Critical Refrigeration systems
- Cascade CO₂ Refrigeration systems

Gases

- CO₂ (R-744)

Benefits

- Excellent film strength
- Excellent carbon and varnish control
- Long fluid life
- Excellent wear protection



Specifications

ISO Viscosity Grade	55	68	85	110	170
Viscosity @ 40 °C (cSt)	53.2	67	82.6	105	170
Viscosity @ 100 °C (cSt)	8.3	9.6	10.9	12.7	16.8
Viscosity Index	128	123	119	115	105
Density g/cm ³ @ 15 °C	0.99	0.98	0.98	0.98	0.97
Pour Point (°C)	-48	-44	-42	-39	-33
Flash Point (°C)	276	281	286	291	300
Copper Strip Corrosion (100 °C for 3 h)	1a	1a	1a	1a	1a
Colour (ASTM 1500)	<0.5	<0.5	<0.5	<0.5	<0.5

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.

