

NEXT 744-PAG

CO₂ PAG Refrigeration Oil (746 Series)

NEXT 744-PAG is a polyalkylene glycol (PAG) based oil that has been formulated to provide exceptional performance in commercial and industrial refrigeration systems. NEXT 744-PAG is ideal for use with carbon dioxide (CO₂).

NEXT 744-PAG contains advanced anti-wear and anti-corrosion to ensure excellent performance in trans critical and sub-critical CO₂ refrigeration systems.



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 lubricity
- Good cold temperature performance



Specifications

ISO Viscosity Grade	46	68	100	150
Viscosity @ 40 °C (cSt)	44	64	98	135
Viscosity @ 100 °C (cSt)	8.5	11.6	17.8	23.4
Viscosity Index	172	178	200	204
Density g/cm ³ @ 15 °C	0.98	0.98	0.99	1.02
Pour Point (°C)	-51	-45	-45	-39
Flash Point (°C)	204	208	222	231
Copper Strip Corrosion (100 °C for 3 h)	1b	1b	1b	1b
Rust Test (ASTM D665) (Distilled Water)	Pass	Pass	Pass	Pass

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.

