



Refrigerant Compressor Oil

Refrigerant Compressor Oil is a highly refined naphthenic mineral oil developed primarily for use in reciprocating and rotary screw compressors in refrigeration systems using ammonia, carbon dioxide or non-HFC refrigerants. It also may be used as a general-purpose, light-duty lubricant for industrial machinery operating in cold environments.

Refrigerant Compressor Oil is manufactured from carefully selected wax-free base stocks to have a low pour point and a low floc point for use in refrigeration system compressors. It has excellent low-temperature properties, good oxidation stability and low carbon-forming tendency to minimize deposit formation, provides good lubricity for protection against wear, and has excellent miscibility with non-HFC refrigerants. It also has good solvency and light color for use as a process oil or as a blending component in other lubricants.

Refrigerant Compressor Oil meets the performance requirements of leading OEMs for use in refrigeration system compressors where the manufacturer specifies a naphthenic mineral oil.

Applications

- Compressors in refrigeration systems using ammonia, carbon dioxide or CFC or HCFC refrigerants, such as R-11, R-12, R-22 and R-502⁽¹⁾
- Plain and rolling-element bearings operating at low temperatures and under light loads
- Drive chains
- Process oil

⁽¹⁾ **Note:** Refrigerant Compressor Oil is not recommended for use with HFC refrigerants such as HFC-134a.

Features/Benefits

- Excellent low-temperature properties
- Wax-free
- Good oxidation stability
- Low carbon-forming tendency
- Excellent miscibility with non-HFC refrigerants
- Good lubricity
- Good solvency
- Light color

**Naphthenic
Refrigeration
Compressor Oil &
Light-Duty Machine
Oil**

Contact Information

**U.S. Customer
Service:
1-800-822-6457**

**Technical Hot Line:
1-800-766-0050**

**International
Customer Service:
+1-832-486-3363
+1-832-486-3870**

**E-mail address:
lubricants@
conocophillips.com**

www.conocophillipslubricants.com

600 N. Dairy Ashford • 2W9000 • Houston, TX 77079



Refrigerant Compressor Oil

Typical Properties

| ISO Grade | 15 | 22 | 68 | 100 |
|-----------------------------------|-----------|-----------|-----------|-----------|
| Specific Gravity @ 60°F | 0.893 | 0.898 | 0.915 | 0.921 |
| Density, lbs/gal @ 60°F | 7.44 | 7.48 | 7.62 | 7.67 |
| Color, ASTM D1500 | 0.5 | 0.5 | 2.5 | L 3.0 |
| Flash Point (COC), °C (°F) | 162 (324) | 174 (345) | 184 (363) | 194 (381) |
| Pour Point, °C (°F) | -51 (-60) | -48 (-54) | -32 (-26) | -29 (-20) |
| Floc Point, °C (°F) | -58 (-72) | -49 (-56) | -33 (-27) | -31 (-24) |
| Viscosity, | | | | |
| cSt @ 40°C | 15.1 | 22.1 | 67.2 | 98.9 |
| cSt @ 100°C | 3.1 | 3.8 | 6.9 | 8.4 |
| SUS @ 100°F | 83.2 | 117 | 354 | 527 |
| SUS @ 210°F | 36.7 | 39.1 | 49.4 | 54.6 |
| Viscosity Index | 29 | 22 | 29 | 22 |
| Acid Number, ASTM D974, mg KOH/g | 0.05 | 0.05 | 0.05 | 0.05 |
| Aniline Point, ASTM D611, °C (°F) | 78 (172) | 80 (176) | 82 (180) | 82 (180) |
| Carbon Residue, ASTM D524, wt % | 0.02 | 0.02 | 0.07 | 0.08 |

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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