



## 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<sup>(1)</sup>
- Plain and rolling-element bearings operating at low temperatures and under light loads
- Drive chains
- Process oil

<sup>(1)</sup> **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:  
1-877-445-9198**

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

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



## 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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