



## Refrigerant Oil

Conoco® Refrigerant Oil is a high-quality circulating oil developed for use in reciprocating, centrifugal and rotary screw compressors used in ammonia refrigeration systems. It also may be used in refrigeration systems using carbon dioxide.

Refrigerant Oil is specially formulated to provide a refrigeration oil with excellent low-temperature properties, good oxidation resistance, and resistance to foaming. It is more resistant to oxidation than conventional naphthenic-based refrigeration oils, resulting in longer service life. It has a low pour point for use in ammonia refrigeration systems used for sub-zero cooling. It has been used successfully in systems with evaporator temperatures as low as -34°C (-30°F), and with discharge temperatures as high as 121°C (250°F).

Refrigerant Oil is **not** recommended for use with Freon or HFC refrigerants.

### ***Applications***

- Compressors in refrigeration systems using ammonia or carbon dioxide
- Ammonia and carbon dioxide manufacturing plants
- Cold storage warehouses and distribution facilities
- Chemical plants
- Ice plants

Refrigerant Oil is recommended for use where the OEM specifies:

- Frick Oil No. 3
- Vilter OEM Refrigeration Oil
- York Oil "C"

### ***Features/Benefits***

- Excellent oxidation resistance
- Provides longer service life than conventional naphthenic ammonia refrigeration oils
- Low pour point
- Clear color for ease of inspection
- Good foam resistance

## **Circulating Oil For Ammonia Refrigeration Compressors**

### **Contact Information**

**U.S. Customer  
Service:**  
**1-800-640-1956**

**Technical Hot Line:**  
**1-800-255-9556**

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

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**Refrigerant Oil**  
**Typical Properties**

<b>ISO Grade</b>	<b>46</b>	<b>68</b>
Specific Gravity @ 60°F	0.862	0.868
Density, lbs/gal @ 60°F	7.19	7.24
Color, ASTM D1500	0.5	0.5
Flash Point (COC), °C (°F)	210 (410)	254 (489)
Pour Point, °C (°F)	-39 (-38)	-36 (-33)
Viscosity,		
cSt @ 40°C	45.5	69.7
cSt @ 100°C	6.8	9.0
SUS @ 100°F	235	361
SUS @ 210°F	49.0	56.6
Viscosity Index	104	100
Acid Number, ASTM D974, mg KOH/g	0.01	0.01
Foam Test, ASTM D892	Pass	Pass

**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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