



CALUMET RO

REFRIGERATION OILS

The CALUMET RO line of mineral oils is specifically designed for air conditioning and refrigeration compressors. These mineral oils are refined from high quality specialty base oils using a customized hydrotreating process. CALUMET RO mineral refrigeration oils are designed to meet OEM requirements and have excellent chemical and thermal stability that support cleaner operation and longer life.

Readily available in ISO 32 (SUS 150) and ISO 68 (SUS 300) viscosity grades, CALUMET RO mineral refrigeration oils can be used in most reciprocating, scroll, screw, and centrifugal compressors currently in service today. Additional viscosities are available on request.

TYPICAL PROPERTIES

PROPERTIES	METHOD	R015 (ISO 32)	R030 (ISO 68)
Viscosity @ 40 °C (cSt)	ASTM D445	30.0	61.6
Viscosity @ 100 °C (cSt)	ASTM D445	4.4	6.6
Viscosity @ 100 °F (SUS)	ASTM D2161	156.5	323.6
Viscosity @ 210 °F (SUS)	ASTM D2161	41.3	48.7
API Gravity @ 60 °F	ASTM D4052	24.3	24.0
Pour Point (°C)	ASTM D97	-47	-41
Flash Point, COC (°C)	ASTM D92	176	192
Color, ASTM	ASTM D1500	L0.5	L1.0
Aniline Point (°C)	ASTM D611	79.5	88.1
Neutralization Number (mg KOH/g)	ASTM D974	0.01	0.01
Sulfur (Mass %)	ASTM D2622	0.01	0.01
Floc Point (°C)	ASHRAE 86	-58	-56
Water Content (ppm)	ASTM D1533	7	11

All properties are typical values and may vary.

Calumet's sampling and testing procedures in effect at the time of production will be used for certification testing. Results may be based on tank certification, manufacturing data, periodic testing and/or most recent product restock. Typical values only represent the values one would expect if the property were tested in our laboratories with our test methods on the specified date. Some product properties are not frequently measured, and accordingly typical values are not based on a statistically relevant number of tests. The information in this document relates only to the named product. The user is solely responsible for all determination regarding any use and any process.

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PERFORMANCE ADVANTAGES

- Excellent chemical characteristics
- Performs well over a wide temperature range
- Low pour point helps facilitate oil return
- Typically used with traditional CFCs and HCFCs refrigerant systems
- OEM approved

TECHNICAL ASSISTANCE

For product or technical questions, contact your Sales Representative or Calumet Product Support at 800.437.3188 or email technical@calumet.com.



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