



Gargoyle Arctic 155, C Heavy and 300

Refrigeration Oils

Product Description

Gargoyle Arctic 155, C Heavy and 300 products are high performance naphthenic mineral oils primarily intended for use in refrigeration compressors. They have low pour points and excellent fluidity at very low temperatures by virtue of being almost wax-free. Consequently, use of these Gargoyle Arctic oils ensures that evaporator tubes are kept clean to improve heat transfer and to reduce downtime for maintenance. They have good chemical stability and are suitable both for cylinder and bearing lubrication.

Gargoyle Arctic 155, C Heavy and 300 are compatible with all refrigerants except sulphur dioxide. They are not recommended for use with HFC refrigerants. The moisture content of Gargoyle Arctic 155, C Heavy and 300 oils is very low when the oils are packaged. Every precaution should be taken to keep the oils dry to avoid the formation of ice in expansion valves, and to limit the risks of oil degradation, copper plating, etc.

Features and Benefits

The Gargoyle Arctic brand of refrigeration oils enjoy a world-wide reputation for good performance based on their use in a wide variety of refrigeration applications over the past several decades. Gargoyle Arctic 155, C Heavy and 300 were the pioneers of this brand and are specially manufactured to provide the specific properties required for refrigeration equipment. Not least among these are low pour point. Gargoyle Arctic 155, C Heavy and 300 offer the following features and potential benefits:

Features	Advantages and Potential Benefits
Low wax content	Excellent low temperature flow and evaporator heat transfer for optimum system efficiency
Good chemical stability	Long service life resulting in less downtime and lower maintenance costs
Multi-purpose lubricants	Suitability for the lubrication of both cylinders and bearings reduces oil inventories

Applications

The Gargoyle Arctic 155, C Heavy and 300 products are recommended for cylinder and bearing lubrication in all conventional refrigeration compressors and for all other machinery operating at sub-zero temperatures. Typical applications include:

- Large industrial reciprocating and rotary refrigeration compressors.
- Industrial applications such as food freezing and cold storage plants
- Marine refrigeration applications
- Used primarily with ammonia refrigerant, but also used with selected halocarbons

Typical Properties

Gargoyle Arctic Series	Gargoyle Arctic 155	Gargoyle Arctic C Heavy	Gargoyle Arctic 300
ISO Viscosity Grade	32	46	68
Viscosity, ASTM D 445, cSt @ 40° C	32.0	46.0	68.0
Pour Point, °C, ASTM D 97	-42	-42	-42
Flash Point, °C, ASTM D 92	190	195	200
Specific Gravity @15° C/15° C, ASTM D 1298	0.91	0.91	0.91

Total Acid Number, ASTM D 974, mg KOH/g	0.01	0.01	0.01
Flocculation Point, R 12, DIN 51351, °C	-36	-36	-31

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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