# Mobil Gargoyle™ Arctic Oils

Mobil Industrial , Uruguay

Refrigeration Oils

## Product Description

Mobil Gargoyle™ Arctic Oil 155, 300, and Mobil Gargoyle™ Arctic C Heavy 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 Mobil Gargoyle Arctic oils helps to ensure 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.

Mobil Gargoyle Arctic Oil 155, 300, and Mobil Gargoyle Arctic C Heavy are compatible with most refrigerants except sulphur dioxide. They are not recommended for use with HFC refrigerants. The moisture content of Mobil Gargoyle Arctic Oil 155, 300, and Mobil Gargoyle Arctic C Heavy 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 Mobil 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. Mobil Gargoyle Arctic Oil 155, 300, and Mobil Gargoyle Arctic C Heavy 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. Mobil Gargoyle Arctic Oil 155, 300, and Mobil Gargoyle Arctic C Heavy 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 Mobil Gargoyle Arctic Oil 155, 300, and Mobil Gargoyle Arctic C Heavy products are recommended for cylinder and bearing lubrication in most conventional refrigeration compressors and for 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

## Properties and Specifications

| Property | MOBIL GARGOYLE ARCTIC OIL 155 | MOBIL GARGOYLE ARCTIC C HEAVY | MOBIL GARGOYLE ARCTIC OIL 300 |
|---|---|---|---|
| Grade | ISO 32 | ISO 46 | ISO 68 |

| Property | MOBIL GARGOYLE ARCTIC OIL 155 | MOBIL GARGOYLE ARCTIC C HEAVY | MOBIL GARGOYLE ARCTIC OIL 300 |
|---|---|---|---|
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 190 | 195 | 200 |
| Flocculation Point R12, C, DIN 51351 | -36 | -36 | -31 |
| Kinematic Viscosity @ 40 C, mm2/s, ASTM D445 | 32.0 | 46.0 | 68.0 |
| Pour Point, °C, ASTM D97 | -42 | -39 | -36 |
| Specific Gravity, 15 C/15 C, ASTM D1298 | 0.91 | 0.91 | 0.91 |
| Total Acid Number, mgKOH/g, ASTM D974 | 0.01 | 0.01 | 0.01 |

**Health and Safety**

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ http://www.msds.exxonmobil.com/psims/psims.aspx

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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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