

Gargoyle Arctic 300

Refrigeration Compressor Lubricant

Product Description

Gargoyle 300 is a high performance naphthenic, narrow-cut mineral oil primarily intended for use in reciprocating refrigeration compressors. It has a low pour point and excellent fluidity at very low temperatures by virtue of being almost wax-free. Consequently, use of Mobil Gargoyle Arctic 300 ensures that evaporator tubes are kept clean to improve heat transfer and to reduce downtime for maintenance. Gargoyle Arctic 300 is compatible with most refrigerants except sulphur dioxide. It is not recommended for use with HFC refrigerants. The moisture content of Gargoyle Arctic 300 oil is very low when the oil is packaged. Every precaution should be taken to keep the oil dry to avoid the formation of ice in expansion valves and to limit the risks of oil degradation, copper plating, etc. When sulphur dioxide is the refrigerant, a specially refined white oil is required. Strict limitations on volatility have been imposed to minimise stripping of light ends leading to oil viscosity increase. The use of additives of any nature is not permitted since they might react with the particular refrigerant in use.

Features and Benefits

Mobil Gargoyle Arctic 300 refrigeration oil enjoys a worldwide reputation for good performance based on its use in a wide variety of refrigeration applications over the past several decades. Mobil Gargoyle Arctic 300 is specially manufactured to provide the specific properties required for refrigeration equipment. Not least among these are low pour point.

Mobil Gargoyle Arctic 300 offers 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 and thermal stability	Minimises compressor piston ring and exhaust valve deposits. Long service life resulting in less downtime and lower maintenance costs
Low pour point	Maintains evaporator efficiency
Multi-purpose lubricant	Suitability for the lubrication of both cylinders and bearings reduces oil inventories

Applications

Mobil Gargoyle Arctic 300 is recommended for cylinder and bearing lubrication in all conventional reciprocating refrigeration compressors and for all other machinery operating at sub-zero temperatures. It can be used with all refrigerants except sulphur dioxide.

Typical Properties

ISO Viscosity Grade	68
Viscosity, ASTM D 445, cSt @ 40°C	68.0

ISO Viscosity Grade	68
Pour Point, °C, ASTM D 97	-42
Flash Point, °C, ASTM D 92	200
Specific Gravity @15C/15C, ASTM D 1298	0.91
Total Acid Number, ASTM D 974, mg KOH/g	0.01
Flocculation Point, R 12, DIN 51351, °C	-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, following the recommendations provided in the Material Safety Data Sheet (MSDS). MSDSs are available upon request through your sales contract office, or via the Internet on <http://www.exxonmobil.com>. 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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