



## Mobil Gargoyle Arctic™ 68 NH

Mobil Industrial , Brazil

Refrigeration Oil

### Product Description

Mobil Gargoyle Arctic 68 NH is a high performance refrigeration oil designed specifically for the lubrication of refrigeration reciprocating and screw compressors using ammonia (NH<sub>3</sub>, R-717). It is formulated with high quality mineral paraffinic technology providing excellent low temperature performance, low volatility and thermal stability.

Its very low miscibility with ammonia limits oil thinning and minimizes oil carry-over. Low vapour pressure reduces oil consumption and need for top-ups while preventing fractionation (viscosity increase).

Viscosity control over a wide temperature range to obtain the lowest fluidity required in the evaporator and the highest viscosity for enhanced equipment protection in the compressor.

### Features and Benefits

Low volatility, helps reducing oil consumption (fewer oil top-ups), limiting oil thinning from fractionation

Low Brookfield viscosity contributes to good oil flow at low temperatures and good oil return from evaporator

Surface protection for increased equipment life, reduced repair costs

High Viscosity Index for good compressor lubrication across wide operating temperatures

Refrigerant compatibility contributes to oil separator efficiency (very low miscibility with NH<sub>3</sub>)

### Applications

Application considerations: Mobil Gargoyle Arctic 68 NH is recommended for refrigeration systems for cylinder and bearing lubrication in conventional reciprocating and screw refrigeration compressors where ammonia refrigerant is used.

This includes:

Large industrial reciprocating and screw refrigeration compressors used in the food industry for food preparation and freezing

Industrial applications such as food freezing and cold storage plants

Marine refrigeration applications

### Properties and Specifications

Property	
Grade	ISO 68
Viscosity Index, ASTM D2270	113
Brookfield Viscosity @ -20 C, mPa.s, ASTM D2983	6020
Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445	9.3
Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445	68.5
Density @ 15 C, g/ml, ASTM D4052	0.8624

Property	
Pour Point, °C, ASTM D97	-36
Flash Point, Cleveland Open Cup, °C, ASTM D92	248

### 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](http://www.exxonmobil.com)

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