

# Mobil Gargoyle™ Arctic 68 NH

Refrigeration Oil for Ammonia (R-717) application



Energy lives here™

## Key benefits



Low Brookfield viscosity contributes to good oil flow at low temperatures



Potentially reduces oil consumption due to low volatility



Excellent viscosity control across wide operating temperatures



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

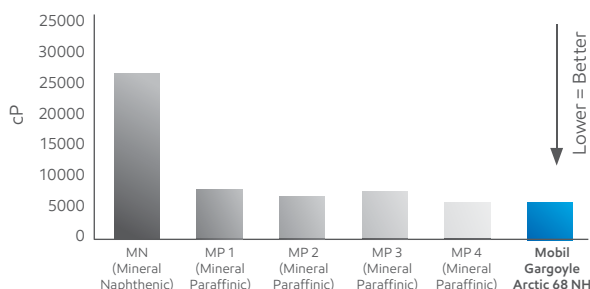
Mobil Gargoyle Arctic 68 NH provides a superior oil flow at low temperatures of

# 6020 cP\*

\* As per ASTM D 2983

Mobil Gargoyle Arctic 68 NH provides superior oil flow at low temperatures compared to other mineral lubricants

## Brookfield Viscosity @ -20°C (cP, ASTM D 2983)



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 of the following benefits to the end user:

- Excellent low temperature performance, low volatility and thermal stability helping to reduce oil consumption and increase equipment life
- Very low miscibility with ammonia limiting oil thinning and reducing oil carry-over for an improved separator efficiency
- Wide operating temperature range due to stable viscosity index providing optimum viscosity in all compressor parts

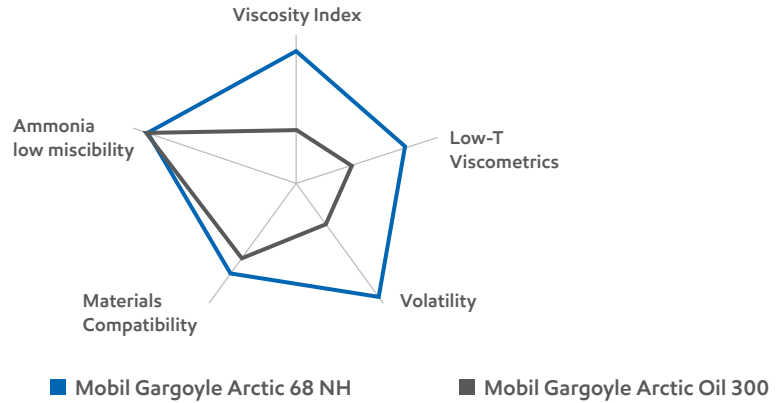
## Typical properties\*

Mobil Gargoyle Arctic 68 NH	
Kinematic Viscosity at 40 °C, ASTM D 445, cSt	68.6
Kinematic Viscosity at 100°C, ASTM D 445, cSt	9.32
Viscosity Index, ASTM D 2270 (typical)	113
Flash Point (COC), ASTM D 92, °C	248
Evaporative Loss 3 hrs at 163°C, ASTM D 972 wt%	0.94
Pour Point, ASTM D 5950, °C	-36
Brookfield Viscosity at -20°C, ASTM D 2983, cP	6020
Density at 15°C, ASTM D 4052, g/mL	0.8624

\* 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) ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.

# Mobil Gargoyle™ Arctic 68 NH

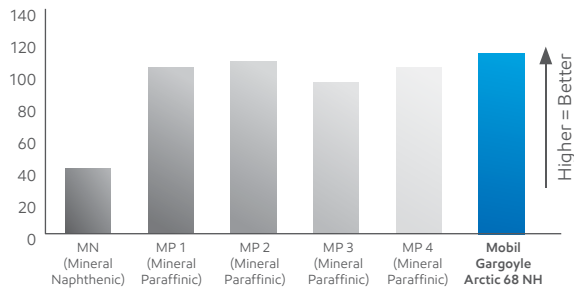
ExxonMobil has developed Mobil Gargoyle Arctic 68 NH refrigeration oil, to be the new premium lubricant for ammonia refrigeration applications showing significantly higher performance compared to Mobil Gargoyle Arctic Oil 300 ammonia compressor oil.



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

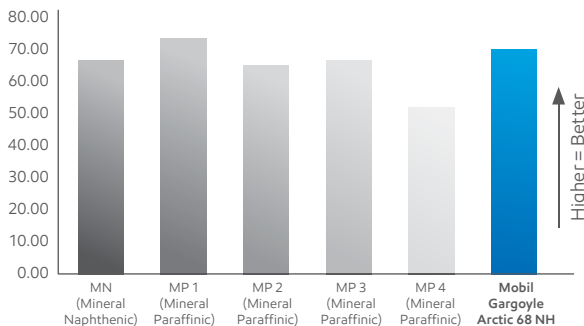
- Large industrial reciprocating and screw refrigeration compressors used in the food industry for food preparation and freezing
- Industrial applications such as food freezing and cold storage plants
- Marine refrigeration applications

## Viscosity Index (ASTM D2270)

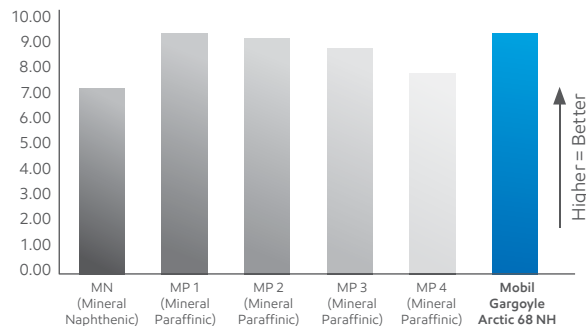


Mobil Gargoyle Arctic 68 NH oil achieves the highest Viscosity Index as per ASTM D 2270

## Viscosity @ 40 °C - KV 40 (cSt, ASTM D445)



## Viscosity @ 100 °C - KV 100 (cSt, ASTM D445)



### Industrial Lubricants



**Advancing Productivity™**

### Safety

High wear protection helps to extend oil life time and increase equipment life – which can help reduce maintenance and the risk associated with employee-equipment interaction.

### Environmental Care\*

Long product life helps you reduce waste oil generation and maintenance-related waste.

### Productivity

Equipment protection and equipment live extension paired with less downtime are helping to increase productivity. Improved potential evaporator efficiency thanks to superior oil flow at low temperature.

\*Visit [mobilindustrial.com](http://mobilindustrial.com) to learn how certain Mobil-branded lubricants may provide benefits to help reduce environmental impact. Actual benefits will depend upon product selected, operating conditions and applications.

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