



Mobil Gargoyle Arctic 68 NH

Mobil Industrial , Austria

Refrigeration Oil for Ammonia (R-717) application

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 (NH₃, 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 NH₃)

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

Typical Properties

Viscosity		
cSt @ 40° C	ASTM D445	68.6
cSt @ 100° C	ASTM D445	9.32
Viscosity Index	ASTM D2270	113
Pour Point (°C)	ASTM D5950	-39
Flash Point (°C)	ASTM D92	248
Density @ 15°C	ASTM D4052	0.86
Brookfield Viscosity at -20°C (cP)	ASTM D2983	6020

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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