



Mobil Gargoyle Arctic SHC NH 68

Synthetic Lubricant for refrigeration compressors - Ammonia applications

Product Description

Mobil Gargoyle Arctic SHC NH 68 is a fully synthetic lubricant, specifically designed to lubricate refrigeration compressors in high performance plants using ammonia as the refrigerating fluid. MobilGargoyle Arctic SHC NH 68 is formulated using wax free, synthesized hydrocarbons of polyalphaolefin (PAO) and synthetic Alkylbenzene base oils, which have demonstrated outstanding resistance to thermal/oxidative degradation. Even in the worst operating conditions, Mobil Gargoyle Arctic SHC NH 68 will reduce sludge and deposit formation, hence avoiding or minimizing valve or filter plugging.

Features and Benefits

The Gargoyle Arctic SHC brand of lubricants are recognised and appreciated around the world for their innovation and outstanding performance. Mobil Gargoyle Arctic SHC NH 68 offers exceptional advantages for ammonia applications as follows.

Features	Advantages and Potential Benefits
Very low pour point	Enables evaporator temperature below conventional mineral naphthenic oils
Solvency	Cleaning effect, especially when switching from mineral oil technology
Wax-free	Excellent low temperature fluidity, no waxy deposits and improved evaporator efficiency
Superior thermal/oxidative and chemical stability	Long oil life compared to mineral lubricant, inducing extended drain intervals and less routine maintenance. In turn reduction of maintenance costs
Good compatibility with seals previously used with mineral lubricant	Limited risk of oil leakage
Low volatility	Avoids viscosity build-up, reduced oil consumption

Application

Mobil Gargoyle Arctic SHC NH 68 is recommended for use in screw or reciprocating refrigeration compressors, in plants using ammonia as refrigerating fluid. Mobil Gargoyle Arctic SHC NH 68 is compatible with mineral lubricants, however, in case of switch over, performances or benefits may be minimized, depending on the ratio of mineral oil remaining in the blend. In such case, a specific oil analysis follow up with control of filters should be handled in the following 6 months accordingly.

Typical Properties

Test Method	Mobil Gargoyle Arctic SHC NH 68
ISO VG	68
Viscosity ASTM D445	
cSt at 40°C	64
cSt at 100°C	8.5
Viscosity Index ASTM D2270	111

Test Method	Mobil Gargoyle Arctic SHC NH 68
Specific Gravity (@15 °C) ASTM D1298	0.85
Flash Point, oC ASTM D93	211
Pour Point, oC ASTM D97	- 54
Color ASTM D1500	0.5
Copper Strip Corrosion, ASTM D 130, 3 h@ 100°C	1B
Water Content, ppm, ASTM D 1533	<100

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application, and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. 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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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. 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.

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