Mobil Gargoyle Arctic SHC™ NH 68

Mobil Industrial , Luxembourg

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 lessroutine 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

Applications

Mobil Gargoyle Arctic SHC NH 68 is recommended for use in screw or reciprocating refrigerationcompressors, in plants using ammonia as refrigerating fluid.Mobil Gargoyle Arctic SHC NH 68 is compatible with mineral lubricants, however, in case ofswitch over, performances or benefits may be minimized, depending on the ratio of mineral oilremaining 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.

Properties and Specifications

Property	
Grade	ISO 68
ASTM Color, ASTM D1500	0.5
Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130	1B
Flash Point, Pensky-Martens Closed Cup, °C, ASTM D93	211

Property	
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	8.5
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	64
Pour Point, °C, ASTM D97	-54
Specific Gravity, 15 C/15 C, ASTM D1298	0.85
Viscosity Index, ASTM D2270	111
Water, ppm, ASTM D1533	<100

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
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