



Mobil Gargoyle Arctic SHC™ NH 68

Mobil Industrial , Ireland

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 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 refrigeration compressors, in plants using ammonia as refrigerating fluid. 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 amount 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.

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    |
| Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445 | 8.5    |
| Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445  | 64     |

| Property                                |      |
|---|------|
| 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.as>  
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