



## Mobil Gargoyle Arctic SHC 226

Mobil Industrial , Chile

Refrigeration Oil

### Product Description

The Mobil Gargoyle Arctic SHC 226 is a full synthetic, superior performance lubricant, specifically designed for use in refrigeration compressors and heat pumps. Formulated from wax-free, synthesised hydrocarbon polyalphaolefin (PAO) fluids, which have outstanding resistance to thermal/oxidative degradation. With their naturally high shear stable viscosity indexes and low temperature fluidity, is able to perform in severe service conditions that are beyond the capabilities of many conventional mineral oils. Mobil Gargoyle Arctic SHC 226 solubility and miscibility with commonly used refrigerants is low, resulting in higher film thickness in the presence of refrigerants under pressure. This can help to reduce shaft seal leakage. Mobil Gargoyle Arctic SHC 226 stability and low volatility characteristics reduces the "light end stripping" which can occur with conventional mineral oils.

### Features and Benefits

The Mobil Gargoyle Arctic SHC brand of lubricants are recognized and appreciated for their innovation and outstanding performance. Our work with equipment builders has helped confirm the results from our own laboratory tests showing the exceptional performance of the Mobil Gargoyle Arctic SHC 200 Series lubricants. Not least among the benefits shown in work with OEMs is the superb low temperature capability providing excellent fluidity at low temperatures, as well as the resistance to viscosity loss due to refrigerant absorption under pressure, along with providing excellent bearing film thickness and shaft sealing properties.

Features	Advantages and Potential Benefits
High oil film thickness in the presence of refrigerant	Improved compressor protection for extended compressor life as well as better shaft sealing, reduced bearing fatigue and less unscheduled downtime
Excellent thermal/oxidative and chemical stability	Long oil life and reduced frequency of drain intervals and routine maintenance
Low volatility	Reduced lacquer and deposit formation
High Viscosity Index and wax-free	Viscosity remains consistent with reduced oil consumption
Low traction coefficient	Excellent low temperature fluidity, no waxy deposits and improved evaporator efficiency
Seal compatibility	Potential for improved system efficiency and reduced power consumption
	Long seal life, reduced shaft seal leakage

### Applications

Mobil Gargoyle Arctic SHC 226 is recommended for the lubrication of refrigeration compressors operating at very high temperatures, and for systems with very low evaporator temperatures. It is suitable for compressor systems using refrigerants such as ammonia and carbon dioxide. Mobil Gargoyle Arctic SHC 226 is compatible with most common refrigerants, except sulphur dioxide, and have been particularly successful in systems using ammonia as the refrigerant. Mobil Gargoyle Arctic SHC 226 is fully miscible with most conventional mineral refrigeration oils. Any mixture with mineral oils may detract from the outstanding performance properties of the Mobil synthetic product.

### Specifications and Approvals

<b>This product is registered to the requirements of:</b>
NSF H1

<b>This product meets or exceeds the requirements of:</b>
FDA 21 CFR 178.3570

Properties and Specifications

Property	
Grade	ISO 68
Flash Point, Cleveland Open Cup, °C, ASTM D92	250
Foam, Sequence I, Stability, ml, ASTM D892	0
Foam, Sequence I, Tendency, ml, ASTM D892	10
Pour Point, °C, ASTM D97	-45
Viscosity Index, ASTM D2270	145
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	10.4
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	68
Specific Gravity, 15 C/15 C, ASTM D1298	0.83

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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