

Mobil Gargoyle Arctic SHC™ 200 Series

Mobil Industrial , Caribbean

Refrigeration Oils

Product Description

The Mobil Gargoyle Arctic SHC™ 200 Series are fully synthetic, superior performance lubricants, specifically designed for use in refrigeration compressors an pumps. They are formulated from wax-free, synthesised hydrocarbon polyalphaolefin (PAO) fluids, which have outstanding resistance to thermal/oxidative degrad With their naturally high shear stable viscosity indexes and low temperature fluidity, they are able to perform in severe service conditions that are beyond the capa of many conventional mineral oils. Their solubility and miscibility with commonly used refrigerants is low, resulting in higher film thickness in the presence of refrigunder pressure. This can help to reduce shaft seal leakage. Their stability and low volatility characteristics reduces the "light end stripping" which can occu conventional mineral oils. Mobil Gargoyle Arctic SHC 200 Series lubricants may help reduce frictional losses and improve machine operating efficiencies.

Mobil Gargoyle Arctic SHC 200 Series lubricants are recommended for the lubrication of refrigeration compressors operating at very high temperatures, and for sy with very low evaporator temperatures. They are suitable for compressor systems using refrigerants such as ammonia and carbon dioxide. Their low miscibilit carbon dioxide makes them a suitable choice for screw compressors using carbon dioxide. They are compatible with most common refrigerants, except sulphur d and have been particularly successful in systems using ammonia as the refrigerant. Mobil Gargoyle Arctic SHC 200 Series are fully miscible with most conver mineral refrigeration oils. Any mixture with mineral oils may detract from the outstanding performance properties of the Mobil synthetic product.

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 Arct 200 Series lubricants. Not least among the benefits shown in work with OEMs is the superb low temperature capability providing excellent fluidity at low temperature well as the resistance to viscosity loss due to refrigerant absorption under pressure, along with providing excellent bearing film thickness and shaft sealing properties

By its nature, the PAO base stock used in Mobil Gargoyle Arctic SHC 200 Series oils provides exceptional thermal/oxidative resistance critical for high temper applications. The narrow molecular weight distribution of the PAO base stocks also minimizes volatility and can help to reduce oil carryover. Mobil Gargoyle Arctic 200 Series oils offer the following features and potential benefits:

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 fa and less unscheduled downtime
Excellent thermal/oxidative and chemical stability	Long oil life and reduced frequency of drain intervals and routine maintenance Reduced lacquer and deposit formation
Low volatility	Viscosity remains consistent with reduced oil consumption
High Viscosity Index and wax-free	Excellent low temperature fluidity, no waxy deposits and improved evaporator efficiency
Low traction coefficient	Potential for improved system efficiency and reduced power consumption
Seal compatibility	Long seal life, reduced shaft seal leakage

Applications

Mobil Gargoyle Arctic SHC 200 Series are fully synthetic lubricants specifically designed for use in refrigeration compressors and heat pumps.

Application Considerations: While Mobil Gargoyle Arctic SHC 200 Series are compatible with mineral oil products, a mixture will detract from their performance. Sy should be thoroughly flushed and cleaned when replacing a mineral product with a Mobil Gargoyle Arctic SHC 200 Series product. In the case of R22 refrigulations of the refrigeration unit must always be sought to ensure compressor operation is suitable for efficient separation of the oil and refrigera

Typical applications are indicated below:

- Commercial, industrial, heat pump applications and marine refrigeration systems
- Commercial, industrial and residential heat pump applications
- Recommended for both reciprocating and rotary compressor designs
- Recommended for use with the following refrigerants: Ammonia and Carbon Dioxide

Specifications and Approvals

This product is registered to the requirements of:	224	226E	228	230	234
NSF H1	X	X	X	X	X
NSF HT1	X				

This product meets or exceeds the requirements of:	224	226E	228	230	234
FDA 21 CFR 178.3570	X	X	X	X	X

Properties and Specifications

Property	224	228	230	234	226E
Grade		ISO 100	ISO 220		ISO 68
Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130	1A	1A	1A	1A	1A
Flash Point, Cleveland Open Cup, °C, ASTM D92	230	255	260	280	266
Foam, Sequence I, Stability, ml, ASTM D892	0	0	0	0	0
Foam, Sequence I, Tendency, ml, ASTM D892	10	10	10	10	10
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	5.6	13.7	25.0	40.0	10.1
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	29.0	97.0	220	399	69.0
Pour Point, °C, ASTM D97	<-54	-45	-39	-39	-45
Specific Gravity, 15 C/15 C, ASTM D1298	0.82	0.84	0.85	0.85	0.83
Viscosity Index, ASTM D2270	132	147	149	150	136

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 All trademarks used herein are trademarks or registered trademarks of Exxon Mobil Corporation or one of its subsidiaries unless indicated otherwise.

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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 to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All promay not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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