

ExxonMobil Gargoyle Arctic 230 SHC 200 Series

Category : Fluid , Lubricant , Polyalphaolefin (PAO)

Material Notes:

Gargoyle Arctic SHC 200 Series are fully synthetic, supreme performance lubricants, specifically designed for use in refrigeration compressors and heat pumps. They are formulated from wax-free, synthesised hydrocarbon polyalphaolefin (PAO) fluids, which have outstanding resistance to thermal/oxidative degradation. With their naturally high shear stable viscosity index and low temperature fluidity, they are able to perform in severe service conditions that are beyond the capabilities of conventional mineral oils. Their solubility and miscibility with refrigerants is low, resulting in higher film thickness in the presence of refrigerants under pressure and reduced shaft seal leakage. Their stability and low volatility eliminates "light end stripping" which can occur with conventional mineral oils. Gargoyle Arctic SHC 200 Series lubricants help reduce frictional losses and improve machine operating efficiency. Gargoyle Arctic SHC 200 Series lubricants are recommended for the lubrication of refrigeration compressors operating at very high temperatures, and for systems with very low evaporator temperatures. They are suitable for compressor systems using refrigerants such as ammonia and carbon dioxide; they have enjoyed excellent experience with CFC refrigerants such as R-12. They are compatible with all refrigerants except sulphur dioxide and have been particularly successful with systems using ammonia as the refrigerant. Gargoyle Arctic SHC 200 Series are fully miscible with conventional mineral oils but admixture may detract from the superior performance properties of the Mobil synthetic product. Gargoyle Arctic SHC 200 Series are fully synthetic lubricants specifically designed for use in refrigeration compressors and heat pumps. Application Considerations: While Gargoyle Arctic SHC 200 Series are compatible with mineral oil products, a mixture will detract from their performance. Systems should be thoroughly flushed and cleaned when replacing a mineral product with a Gargoyle Arctic SHC 200 Series product. In the case of R22 refrigerants, guidance from the supplier of the refrigeration unit must always be sought to ensure installation operation is suitable for efficient separation of the oil and refrigerant. 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

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Gargoyle-Arctic-230-SHC-200-Series.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.850 g/cc	0.850 g/cc	15°C; ASTM D1298
Viscosity Measurement	149	149	Index; ASTM D2270
Kinematic Viscosity at 40°C (104°F)	220 cSt	220 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	25 cSt	25 cSt	ASTM D445

Thermal Properties	Metric	English	Comments
Pour Point	-39.0 °C	-38.2 °F	ASTM D97
Flash Point	260 °C	500 °F	ASTM D92

Descriptive Properties	Value	Comments
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Copper Strip Corrosion Descriptive Properties	1A Value	3 hrs @ 100°C Comments
Foam Sequence I, ASTM D993	10/0	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China