

# Mobil Gargoyle Arctic SHC™ 200 Series

Refrigeration oils for compressors and heat pumps



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## Product features

Mobil Gargoyle Arctic SHC™ 200 Series is a line of synthetic, high-performance lubricants, designed for use in refrigeration compressors and heat pumps. Formulated from wax-free, synthesised hydrocarbon polyalphaolefin (PAO) fluids, they are engineered to deliver:

- Outstanding resistance to thermal and oxidative degradation
- Excellent antiwear protection
- Minimised shaft-seal leakage
- Optimised power consumption

Performs at **-51°C** compared to **-42°C** in paraffinic alternative.

## Higher film thickness

The lubricants' solubility and miscibility with commonly used refrigerants is low, which ensures good film thickness when used with refrigerants under pressure. This can provide high levels of compressor antiwear protection, optimised shaft sealing and minimal bearing fatigue. These performance benefits help deliver extended component life and lower unscheduled downtime.

## Potential benefits

Mobil Gargoyle Arctic SHC 200 Series refrigerant oils can offer:\*

- 1** Minimised downtime and maintenance costs
- 2** Extended oil drains and service life
- 3** Long bearing and seal life
- 4** Improved system efficiency

## Compressor fluid changeover

Mobil Gargoyle Arctic SHC 200 Series oils are fully compatible with mineral oils. It is recommended that systems should be thoroughly flushed when replacing a mineral product in order to maximise performance.

## Recommended applications

Refrigeration compressors operating at very high temperatures	✓
Systems with very low evaporator temperatures	✓
Systems using ammonia or carbon dioxide refrigerants	✓
Suitable for use in reciprocating and rotary compressors	✓

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## Improved performance under severe service conditions

With their naturally high sheer stable viscosity indexes and low-temperature fluidity, Mobil Gargoyle Arctic SHC™ 200 Series lubricants eliminate waxy deposits, ensuring evaporator efficiency. Consequently, they are able to perform under severe conditions beyond the capabilities of many conventional mineral oils.

## Suitable for refrigeration compressors

The oils (Gargoyle Arctic SHC™ 224, Gargoyle Arctic SHC™ 226E and Gargoyle Arctic SHC™ 230) are recommended for the lubrication of refrigeration compressors operating at very high temperatures, systems with very low evaporator temperatures and those using ammonia or carbon dioxide refrigerants.



## Typical properties\*

Mobil Gargoyle Arctic SHC 200 Series	224	226E	230
ISO Viscosity Grade	--	68	220
Viscosity, ASTM D 445			
cSt @ 40°C	29.0	69.0	220
cSt @ 100°C	5.6	10.1	25.0
Viscosity Index, ASTM D 2270	132	136	149
Pour Point, °C, ASTM D 97	-54	-50	-39
Flash Point, °C, ASTM D 92	230	266	260
Specific Gravity 15°C/15°C ASMT D 1298	0.82	0.83	0.85
Foam Test, ASTM D 892, Seq ITendency/Stability, ml/ml	10/0	10/0	10/0
Copper Strip Corrosion, ASTM D 130, 3 hrs @ 100°C	1A	1A	1A

\* 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 [exxonmobil.com](http://exxonmobil.com). ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.