

# Gargoyle Arctic SHC 200 Series

**Synthetic Super Premium Refrigeration Compressor Lubricants**

## Description

Gargoyle Arctic SHC 200 Series are fully synthetic, high quality lubricants, primarily intended for use in refrigeration compressors and heat pumps. They are formulated from wax-free, synthesized hydrocarbon fluids, which have outstanding resistance to oxidation and thermal 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. Gargoyle Arctic SHC 200 Series lubricants reduce frictional losses and improve machine operating efficiency. Their solubility and miscibility with refrigerants is low. Their stability and low volatility eliminates "light end stripping" which can occur with conventional mineral oils.

## Applications

Gargoyle Arctic SHC 200 Series lubricants are recommended for the lubrication of reciprocating refrigeration compressors operating at very high temperatures, and for systems with very low evaporator temperatures. They are suitable for screw compressor systems using refrigerants such as R-12, R114, ammonia and R-22. The higher viscosity grades are used for lubricating heat pumps. They are compatible with all refrigerants except sulfur 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.

## Benefits

Gargoyle Arctic SHC 200 Series lubricants offer the following benefits:

- Minimal oxidation and degradation deposits giving cleaner systems, particularly at discharge valves, thereby reducing unscheduled maintenance
- Clean evaporator surfaces due to absence of wax deposition at low temperatures
- Reduced power requirements and lower operating temperatures resulting from lower frictional losses
- High compressor efficiency and low wear due to high viscosity index and superior lubricity characteristics, particularly at high temperatures
- Extended drain intervals resulting in reduced waste oil costs
- Operation improvements provide reduced system downtime and lower maintenance costs giving lower operating costs and increased production



## Typical Properties

<b>Mobil Gargoyle Arctic SHC</b>	<b>226</b>	<b>230</b>
ISO VG	68	220
Kinetic Viscosity		
cSt at 40°C	68	209
cSt at 100°C	10.0	25.0
Viscosity Index	148	149
Specific Gravity	0.834	0.846
Flash Point (COC), °C	250	260
Pour Point, °C	-45	-39
Color, ASTM	0.5	0.5

\* The viscosity of this grade lies between ISO VG 320 and ISO VG 460.

It is recommended for use where either grade is requested.

## Precautions

Gargoyle Arctic SHC 200 Series lubricants are manufactured from high quality petroleum base stocks, carefully blended with selected additives. As with all petroleum products, good personal hygiene and careful handling should always be practiced. Avoid prolonged contact to skin, splashing into the eyes, ingestion or vapour inhalation. Please refer to our Imperial Oil Material Safety Data Sheet for further information.

Note: This product is not controlled under Canadian WHMIS legislation.

Due to continual product research and development, the information contained herein is subject to changes without notification. Additional important health and safety information on this product can be found in the Material Safety Data Sheet, which is available online at [www.imperialoil.ca/mobil](http://www.imperialoil.ca/mobil) or by contacting Lubricants and Petroleum Specialities, Technical Services, Technical Help Desk: 1-800-268-3183

© 2001 Imperial Oil

® The Mobil logotype and the Pegasus design are registered trademarks of Exxon Mobil Corporation.

™ Trademark of Exxon Mobil Corporation.

Oct-01

Rev. July 2005