

# Product Data Sheet

## Mobil Gargoyle Arctic SHC 226 E Synthetic Refrigeration Compressor Lubricant

### Product Description

Gargoyle Arctic SHC 226E is a fully synthetic high quality lubricant developed specifically for severe service in refrigeration systems with flooded type evaporators. It is formulated from wax free, synthesised hydrocarbon fluids, which have outstanding resistance to oxidation and thermal degradation. With naturally high shear stable viscosity index and low temperature fluidity, it is able to perform in severe service conditions that are beyond the capabilities of conventional mineral oils. Gargoyle Arctic SHC 226E reduces frictional losses and improves machine operating efficiency. This unique formulation prevents fractionation better than other synthetic lubricants when used in presence of poorly miscible refrigerant such as R22.

### Benefits

**Gargoyle Arctic SHC 226E** offers the following benefits:

- Minimal oxidation and degradation deposits giving cleaner systems, particularly discharge valves, and reduced 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
- Trouble-free operation with reduced system down time and lower maintenance costs giving lower operating costs and increased production
- Prevents lubricant fractionation when used in the presence of R22

### Application

Gargoyle Arctic SHC 226E refrigeration compressor lubricant is designed for refrigeration systems with very high reciprocating compressor temperatures. Specifically it meets the requirements of ABB Stal and Sabroe. It is also suitable for very low evaporator temperatures and for screw compressor systems using refrigerants such as R12, R114, ammonia and R22. Gargoyle Arctic SHC 226E is fully miscible with conventional mineral oils.

In the event of an inadvertent mixture with mineral oils or other synthetics there will be some loss in the superior performance properties of Gargoyle Arctic SHC 226E, however, the lubricant can be continued in service until it becomes reasonable to change the system.

## Health and Safety

Based on available toxicological information, it has been determined that this product poses no significant health risk when used and handled properly.

Details on handling, as well as health and safety information, can be found in the Material Safety Data Bulletin which can be obtained through Mobil Oil Company Ltd., by telephoning 01372 22 2000.

Typical physical characteristics are given in the table. These are intended as a guide to industry and are not necessarily manufacturing or marketing specifications.

## Typical Characteristics

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### Mobil Gargoyle Arctic SHC 226E

	Test Method	
ISO VG	-	68
Viscosity, cSt at 40°C	ASTM D445	66
cSt at 100°C		10
Viscosity Index	ASTM D2270	138
Specific Gravity	ASTM D1298	0.833
Flash Point, °C	ASTM D92	266
Pour Point, °C	ASTM D97	<-45

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Due to continual product research and development, the information contained herein is subject to change without notice.

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