Mobil SHC Gargoyle™ 32

Mobil Industrial , Qatar

Supreme Performance Synthetic Refrigeration Oils

Product Description

Mobil SHC Gargoyle 32 is a high performance, fully synthetic lubricant, formulated with proprietary synthesized Polyol Esters (POE) and a unique additive system that offers outstanding lubricity, wear protection, chemical and thermal stability, and hydrolytic stability.

Mobil SHC Gargoyle 32 is specifically designed for the lubrication of refrigeration compressors and systems using ozone-friendly synthetic HFC refrigerants as well as recently developed HFO refrigerants and HFO/HFC blends with lower Global Warming Potential than HFC's, including A1 and A2L refrigerants as per ASHRAE 34/ISO 817 safety classification.

Mobil SHC Gargoyle 32 is miscible with HFC, HFO and HFO/HFC refrigerants and has well-defined viscosity / temperature / pressure relationships with a wide range of these refrigerants. It also exhibits an optimized miscibility/solubility balance.

Mobil SHC Gargoyle 32 is recommended for use in HVAC (Heating, Ventilation, Air Conditioning), commercial and industrial refrigeration.

Features and Benefits

Mobil SHC Gargoyle 32 is formulated for its excellent performance in a wide range of refrigerants and operating conditions. It is designed to complement the Mobil EAL Arctic™ Series whenever refrigeration systems operate with either HFC refrigerants (for instance and not only R-134a, R-410A) or with latest-generation, ozone-friendly, low-global-warming HFO refrigerants (for instance and not only R-455A, R-513A). Mobil SHC Gargoyle 32 was developed alongside the key compressor OEMs and system designers to ensure that it offers exceptional performance in a wide range of applications. In particular, this product is recommended for use in Copeland compressors as per Emerson Climate Technologies specification.

Features	Advantages and Potential Benefits
Excellent high temperature stability	Improved evaporator cleanliness, less unscheduled downtime and reduced maintenance costs
Well defined miscibility and P-V-T relationships with HFC, HFO, HFO/HFC blends including A1- and A2L- classified refrigerants	Assures high system efficiency and proper oil return in refrigeration system designs
Very good load carrying and anti-wear properties	Reduced compressor wear resulting in lower maintenance costs
High Viscosity Index and wax-free	Excellent low temperature fluidity, no waxy deposits and improved evaporator efficiency
Optimized miscibility/solubility balance	Versatility of use in a wide variety of refrigerant/compressor combinations

Applications

Application considerations: Mobil SHC Gargoyle 32 oils is hygroscopic in nature and care must be taken to avoid moisture absorption during handling. Packages should be tightly closed when not in use, and small packaging is preferred to promote stock rotation. The product should not be transferred to plastic containers that may allow moisture ingress.

Mobil SHC Gargoyle 32 is recommended for refrigeration systems where HFC, HFO and HFO/FHC blends refrigerants are used. The application range is wide from Domestic/Tertiary applications (Heating, Ventilation, Air Conditioning so-called HVAC) to commercial applications (food conservation,

transportation) and industrial applications (food processing, freezing).

Mobil SHC Gargoyle 32 should not be used in ammonia systems (NH3 / R-717).

Properties and Specifications

Property	
Grade	ISO 32
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	31
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	5.6
Total Acid Number, mgKOH/g, ASTM D974(mod)	0.02
Pour Point, °C, ASTM D5950	-57
Specific Gravity @ 15.6C, ASTM D4052	0.99
Viscosity Index, ASTM D2270	129
Flash Point, Cleveland Open Cup, °C, ASTM D92	271

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.aspx

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