



## Mobil SHC Gargoyles™ 32

Mobil Industrial, Norway

Supreme Performance Synthetic Refrigeration Oils

### Product Description

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

### Features and Benefits

Mobil SHC Gargoyles 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 Gargoyles 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 Gargoyles 32 oils are 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 Gargoyles 32 is recommended for refrigeration systems where HFC, HFO and HFO/HFC 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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Mobil Oil AS  
Drammensveien 149, Postboks 350 Skøyen  
N-0213 OSLO

(+47) 22 66 30 30  
<http://www.mobil.no>

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 [www.exxonmobil.com](http://www.exxonmobil.com)

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