Mobil[®]

Mobil EAL Arctic Series

Mobil Industrial , Ecuador

Supreme Performance Synthetic Refrigeration Oils

Product Description

Mobil EAL Arctic Series are high performance fully synthetic lubricants specifically designed for the lubrication of refrigeration compressors and systems using c friendly synthetic HFC refrigerants as well as recently developed HFO refrigerants and HFO/HFC blends with lower Global Warming Potential than HFC's, includ and A2L refrigerants as per ASHRAE 34/ISO 817 safety classification.

Mobil EAL Arctic Series oils are formulated with proprietary synthesized Polyol Esters (POEs) and a unique additive system to provide outstanding lubricity protection, chemical and thermal stability, and hydrolytic stability.

They are miscible with HFC, HFO and HFO/HFC refrigerants and have well-defined viscosity / temperature / pressure relationships with a wide range of refrigerants. Performance of the Mobil EAL Arctic Series has been well documented with HFC, HFO and HFO/HFC blends in a broad range of refrigeration a conditioning systems and are used by many major compressor and system builders around the world.

Mobil EAL Artic Series are recommended for use in HVAC (Heating, Ventilation, Air Conditioning), Commercial and Industrial Refrigeration.

Features and Benefits

Mobil EAL Arctic Series Lubricants are recognised and appreciated around the world for their excellent performance with a wide range of refrigerants and oper conditions. Mobil EAL Arctic Series was designed to complement the new generation of ozone-friendly and lower Global Warming refrigerants mandated Montreal and Kyoto Protocols followed by even more stringent regional agreements such European F-gas regulation. A key factor in the development of Mobil EAL Series of lubricants was our close contacts with key compressor OEMs and system designers to ensure that our product offerings will provide exceptional performa a wide range of applications.

This work in combination with our lab testing has helped confirm the exceptional performance of the Mobil EAL Arctic Series. This cooperative work allowed an op design of synthetic POE molecules for each viscosity grade in the series and the development of an additive package to meet the stability and compatibility require for refrigeration applications.

Features	Advantages and Potential Benefits					
Excellent high temperature stability	Improved evaporator cleanliness, less unscheduled downtime and reduced maintenance c					
Well defined miscibility and P-V-T relationships with HFC refrigerants	Assures high system efficiency and proper oil return in refrigeration system designs					
Very good 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					
Wide viscosity range	Can meet specific viscosity requirements of a wide range of equipment and applications					

Applications

Application considerations: Mobil EAL Arctic Series oils are hygroscopic and care must be taken to avoid moisture absorption during handling. Packages should be closed when not in use, and small packaging preferred. Product should not be transferred to plastic containers that may allow moisture ingress.

Mobil EAL Arctic Series are recommended for refrigeration systems where HFC, HFO and HFO/FHC blends refrigerants are used. The application range is wide Domestic/Tertiary applications (Heating, Ventilation, Air Conditioning HVAC) to commercial applications (food conservation, transportation) and industrial applic (food processing, freezing).

Mobil EAL Arctic Series must not be used in ammonia systems (NH3 / R-717).

Properties and Specifications

Property	22	32	46	68	100	170	220	22 C

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Property	22	32	46	68	100	170	220	22 C
Grade	ISO 22	ISO 32	ISO 46	ISO 68	ISO 100		ISO 220	ISO :
Density @ 15 C, kg/l, ASTM D4052								0.98
Flash Point, Cleveland Open Cup, °C, ASTM D92	252	250	258	256	271	279	285	259
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	4.7	5.6	6.9	8.3	10.6	15.3	18.1	4.9
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	23.5	31.6	46.2	65	96	168	221	23.6
Pour Point, °C, ASTM D5950	-59	-55	-46	-40	-34	-29	-28	-58
Specific Gravity, 15.6 C/15.6 C, ASTM D4052	0.993	0.985	0.976	0.967	0.967	0.969	0.966	0.99
Total Acid Number, mgKOH/g, ASTM D974(mod)	0.02	0.02	0.02	0.02	0.02	0.05	0.03	0.03
Viscosity Index, ASTM D2270	114	115	104	96	93	91	88	134

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.as

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performate to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All primary not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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