



ATLANTIC EAL BIO REFRIGERATION OIL SERIES

High-Performance Synthetic Refrigeration Oils

DESCRIPTION

ATLANTIC EAL BIO REFRIGERATION OIL SERIES are high-performance, fully synthetic lubricants engineered for refrigeration systems and compressors using ozone-friendly refrigerants. The ozone-friendly refrigerants include HFCs, new-generation HFOs, and HFO/HFC blends with reduced Global Warming Potential. ATLANTIC EAL BIO REFRIGERATION OIL SERIES are compatible with both A2L and A1 refrigerants, which are defined by ASHRAE 34/ISO 817 safety classifications. This compatibility ensures optimal performance and longevity of the refrigeration systems and compressors.

The ATLANTIC EAL BIO REFRIGERATION OIL SERIES lubricants are formulated with advanced polyol ester (POE) base oils and a proprietary additive system. It helps them deliver exceptional lubricity, wear protection, thermal and chemical stability, and resistance to hydrolysis. These lubricants offer exceptional miscibility with an extensive range of refrigerants. In addition, they maintain consistent viscosity, pressure behavior, and temperature under demanding operating conditions.

The ATLANTIC EAL BIO REFRIGERATION OIL SERIES are widely used and trusted by leading refrigeration and compressor system manufacturers. These lubricants have a proven performance record in various HVAC, industrial, and commercial refrigeration applications worldwide.

APPLICATIONS

The ATLANTIC EAL BIO REFRIGERATION OIL SERIES are recommended for refrigeration systems where HFC, HFO and HFO/HFC blends refrigerants are used. They can be used in a wide range of applications from Domestic/Tertiary applications (Heating, Ventilation, Air Conditioning HVAC) to commercial applications (food conservation, transportation) and industrial applications (food processing, freezing).

ATLANTIC EAL BIO REFRIGERATION OILS must not be used in ammonia systems (NH₃ / R-717)

FEATURES AND BENEFITS

- Exceptional high-temperature stability
- Extraordinary anti-wear properties
- Wide viscosity range
- High viscosity index and wax-free
- Can meet specific viscosity requirements of an extensive range of applications and equipment
- High system efficiency
- Ensures proper oil return in the refrigeration system designs
- Reduced compressor wear, resulting in lower maintenance costs
- Excellent low-temperature fluidity
- No waxy deposits and improved evaporator efficiency
- Well-defined miscibility and P-V-T relationships with HFC refrigerants

TYPICAL TECHNICAL PROPERTIES

PRODUCT CODE:	SL-BIO-25002.1	SL-BIO-25002.2	SL-BIO-25002.3	SL-BIO-25002.4	SL-BIO-25002.5	SL-BIO-25002.6	SL-BIO-25002.7	SL-BIO-25002.8
ISO Viscosity Grade	22	32	46	68	100	170	220	22 CC
Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445	23.5	31.6	46.2	65	96	168	221	23.6
Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445	4.7	5.6	6.9	8.3	10.6	15.3	18.1	4.9
Viscosity Index, ASTM D2270	114	115	104	96	93	91	88	134
Flash Point, Cleveland Open Cup, °C, ASTM D92	252	250	258	256	271	279	285	259
Pour Point, °C, ASTM D97	-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	0.991

Note: These characteristics are typical of current production. While future production will conform to Atlantic's specification, variations in these characteristics may occur.

ATL/PDS/SL/BIO/02/0*, 01.06.25, Page 1/1

* supersedes all previous versions

Packing: 18L, 20L, 25L, 200L, 205L, 208L, 210L