



ATLANTIC MARINE REFRIGRATION COMPRESSOR OILS SYN

DESCRIPTION

ATLANTIC MARINE REFRIGRATION COMPRESSOR OIL series are fully synthetic, supreme performance lubricants, specifically designed for use in refrigeration compressors and heat pumps used in marine, commercial and industrial applications. They are formulated from wax-free, synthesized hydrocarbon polyalphaolefin (PAO) fluids, which have outstanding resistance to thermal/oxidative degradation. With their naturally high shear stable viscosity index and low temperature fluidity, they are able to perform in severe service conditions that are beyond the capabilities of conventional mineral oils. Their solubility and miscibility with refrigerants is low, resulting in higher film thickness in the presence of refrigerants under pressure and reduced shaft seal leakage. Their stability and low volatility eliminates "light end stripping" which can occur with conventional mineral oils. ATLANTIC MARINE REFRIGRATION COMPRESSOR OIL series help reduce frictional losses and improve machine operating efficiency.

ATLANTIC MARINE REFRIGRATION COMPRESSOR lubricants are ideal for refrigeration compressors that operate under extremely high temperatures and for systems with very low evaporator temperatures. They are compatible with compressor systems utilizing refrigerants like ammonia, carbon dioxide, and HCFCs such as R-22. Additionally, they have proven to perform well with CFC refrigerants like R-12. They are compatible with all refrigerants except sulfur dioxide and have shown particular effectiveness in systems using ammonia. While they are fully miscible with standard mineral oils, mixing them with mineral oils may compromise the superior performance characteristics of the synthetic lubricant.

APPLICATIONS

ATLANTIC MARINE REFRIGRATION COMPRESSOR OIL series are fully synthetic lubricants specifically designed for use in refrigeration compressors and heat pumps. They are recommended for use with the following refrigerants: Ammonia, R-22 and other HCFCs, and Carbon Dioxide. They are compressor lubricants designed for refrigeration systems with very high reciprocating compressor temperatures. In the case of R22 refrigerants, guidance from the supplier of the refrigeration unit must always be sought to ensure installation operation is suitable for efficient separation of the oil and refrigerant. They are also suitable for very low evaporator temperatures and for screw compressor systems using refrigerants such as R12.

FEATURES AND BENEFITS

- High oil film thickness in the presence of refrigerant
- Excellent thermal/oxidative and chemical stability
- Low volatility
- High Viscosity Index and wax-free
- Low traction coefficient
- Seal compatibility

RECOMMENDATIONS / SPECIFICATIONS

USDA H1 Quality Level

TYPICAL TECHNICAL PROPERTIES

PRODUCT CODE:	ML-251601	ML-251602
ISO Viscosity Grade	68	220
Kinematic Viscosity at 40°C, mm ² /s, ASTM D445	68	220
Kinematic Viscosity at 100°C, mm ² /s, ASTM D445	10.2	25.0
Viscosity Index, ASTM D2270	136	149
Flash Point(COC), °C, ASTM D92	266	260
Pour Point, °C, ASTM D 97	-45	-39
Copper Strip Corrosion, ASTM D130, 3 h @ 100°C	1A	1A
Foam Test, ASTM D 892, Seq I Tendency / Stability, ml/ml	10/0	10/0

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

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* supersedes all previous versions

Packing: 200L, 208L, 1000L, BULK