

ML303 SYNTHETIC REFRIGERATION COMPRESSOR OIL

PRODUCT INFORMATION

A very high performance synthetic lubricant specifically designed for use in refrigeration compressors and heat pumps.

Formulated from synthetic hydrocarbons (polyalphaolefins) which provide differential properties in relation to conventional mineral oils. With high resistance to oxidative and thermal degradation, high viscosity index, shear stability and excellent fluidity at low temperatures, it is capable of achieving optimum performance under severe service conditions. Recommended for use in refrigeration compressors that operate at very high temperatures and for systems with very low temperatures in the evaporator.

Typical Applications

- Suitable for refrigeration compressors that use ammonia and carbon dioxide. Due to the low miscibility with carbon dioxide, this lubricant is an option for the lubrication of screw compressors that use this gas.
- Except with sulfur dioxide, it is compatible with most refrigerants e.g., R134a, R413a, R22, R12, R507a, R500, R502.

NOTE: Please check with the Technical Department for recommendations relating to any other refrigerants.



Beneficial Qualities

- Excellent thermal, oxidative and chemical stability reduces the formation of lacquers and deposits, resulting in long oil life.
- Wax free, with a very high Viscosity Index, guarantees fluidity at low temperatures and improves evaporator efficiency.
- Low volatility: the viscosity remains stable and the oil consumption is lower.
- Low miscibility with commonly used refrigerants. This makes the lubricating film thicker and consequently provides greater protection to the equipment.
- Low coefficient of friction.
- Compatibility with seals.



Technical Details

	ASTM Test	Unit	Result
Density @ 15°C	D-1298	kg/L	0.83
ISO Grade			68
Kinematic Viscosity @ 40°C	D-445	cSt	69
Kinematic Viscosity @ 100°C	D-445	cSt	10.1
Viscosity Index	D-2270		136
Flash Point	D-92	°C	266
Pour Point	D-97	°C	- 50
Copper Corrosion, 3 hours @ 100 °C	D-130		1
TAN	D-974	mgKOH/g	0.1
E.P. Additives			Yes

Specifications

- DIN 51517 Part 2 (HLP)
- DIN 51517 Part 3 (HVLP)
- THYSSEN TH N-256132
- VDMA 24318
- HOESCH HWN 2333
- SIS SS 155434

IMPORTANT:

THIS PRODUCT IS COMPATIBLE WITH MINERAL OILS. HOWEVER, ANY MIXTURE WITH THEM REDUCES THE PERFORMANCE OF THIS SYNTHETIC LUBRICANT.

THIS PRODUCT IS NOT COMPATIBLE WITH PAG OR POE BASED LUBRICANTS.

MAK LUBES = QUALITY MAINTENANCE LUBRICANTS

Product Manufactured in Argentina under an ISO 9001 and ISO 14001 Certified Quality & Environmental Management System

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+44 (0) 118 930 4321



mak-lubes.org

The Old Brewery
2 Brewery Court, High Street
Theale, Reading, RG7 5AH
United Kingdom