

**Synthetic oil for ammonia-based refrigeration compressors**

**PERFORMANCE**

SYFRIGO AP 68 is a fully synthetic oil, specially designed for lubricating refrigeration compressors using ammonia as the refrigerant.

SYFRIGO AP 68 is formulated from paraffin-free polyalphaolefin (PAO) synthetic hydrocarbons and from synthetic alkylbenzene-based oils, which have a proven remarkable resistance to thermal degradation and oxidation. Even under the toughest operating conditions, SYFRIGO AP 68 will act against sludge and deposit formation, and thereby prevent or reduce clogging of valves or filters.

**ADVANTAGES**

- Very low pour point, making for a lower evaporation point than with conventional mineral naphthenic oils.
- Solvent power: cleaning effect, in particular after mineral oil use.
- Completely paraffin-free: excellent fluidity at low temperatures, no paraffin deposits and increased evaporator effectiveness.
- Excellent thermal and chemical stability, plus very good oxidation resistance: longer oil service life compared to mineral oils, longer oil change intervals and less maintenance, reduced maintenance costs.
- Compatibility with seals used previously with mineral oils: reduced leakage risk.
- Low volatility: prevents viscosity increases and reduces oil consumption.

**USES**

SYFRIGO AP 68 is recommended for screw or piston refrigeration compressors using ammonia as the refrigerant.

SYFRIGO AP 68 is compatible with mineral oils. However, in case of replacement the performance or advantages may be impaired, depending on the quantity of mineral oil remaining in the mix. In this case, specific monitoring for each analysis and a filter check will need to be set up for the following 6 months.

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Characteristics	Standards	Units	Values
Viscosity at 40°C	ASTM D 445	mm <sup>2</sup> /s	64
Viscosity at 100°C	ASTM D 445	mm <sup>2</sup> /s	8.5
Viscosity index	ASTM D 2270	-	111
Density at 15°C	ASTM D 1298	kg/L	0.85
Flash point	ASTM D 93	°C	211
Pour point	ASTM D 97	°C	1-54
Colour	ASTM D 1500	-	0.5
Copper strip corrosion, 3 h at 100°C	ASTM D 130	-	1B
Water content	ASTM D 1533	ppm	< 100

*The characteristics are given purely for information and are consistent with our current production standards. IGOL reserves the right to modify them, in order to pass on technical developments to its customers. Before using this product, you should consult the instructions for use and the environmental impact shown on the technical and safety data sheets. The information given above is based on the current state of our knowledge of the product in question. The product user should take all relevant precautions relating to its use. Under no circumstances may IGOL be held liable for damages resulting from misuse.*

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