TECHNICAL DATA SHEET

COOLMAX PAO 100

Product code: 262201501

Synthetic ammonia refrigeration compressor fluid

These products are PAO based synthetic compressor fluids. They are specially formulated to lubricate compressors used in ammonia refrigeration systems. The problems normally seen (high oil consumption-reduced efficiency due to pipe clogging) will be history when the product is used. These products are fully miscible with conventional mineral oils, therefore a change-over procedure is fairly easy. High concentrations of mineral based product will however reduce the performance. The product compatibility with paints, seals, gaskets and hoses, is similar to mineral oils. No special precautions related to compatibility are required when changing over from a mineral oil lubricant.

Applications

Reciprocating and rotary screw compressors used in ammonia systems as well as gas compressors and vacuum pumps in process systems where ammonia vapours occur.

Benefits & Advantages

- Fully compatible with ammonia
- Contains a minimum of additives
- Prevent deposit formation in low temperature systems
- Reduces discharge valve deposits
- Excellent lubricity
- High film strength
- Zero wax content
- Improves compressor efficiency
- Low volatility
- Very low vapour pressure

Gas type compatibility

The product is suitable for processing the following gases:

R717 (ammonia)	R290 (propane)	R22

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ISO 9001:2015 ISO 14001:2020 ISO 21469:2006
V 29.3.23

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Typical Performance Data

Typical	Test Method	Value
Density @ 15 °C, gr/l		0.860
Viscosity @ 40 °C	ASTM D445	104
Viscosity @ 100 °C	ASTM D445	13.77
Viscosity Index	ASTM D2270	>130
Pour point, °C	ASTM D97	-46
Flash point, °C	ASTM D92	265
Auto ignition point, °C		357
TAN, mg KOH/g	ASTM D664	<1.0
Water content, ppm	ASTM D1744	<50
4-ball wear test • Welding load, kg • Scar mm, 1200 RPM 75 °C 20 kg/hr	ASTM D2793	 150 0.4
Steel corrosion 24hrs @ 100 °C	ASTM D665A	None
Falex mm, 250 lbs for 10 min.	ASTM D3233	0.3
Foaming tendency ml, sequence I	ASTM D892	20
Demulsibility, 55 °C, 30 min		40/40/0
Copper corrosion, 24 hr		1a

All performance data on this Technical Data Sheet are indicative only and can vary during production.

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