

COOL-PLUS PAO GEN 220

REFRIGERATION OILS

322201601



SYNTHETIC AMMONIA REFRIGERATION COMPRESSOR FLUID

These compressor fluids are composed of PAO synthetic oil and are designed specifically for lubricating compressors used in ammonia refrigeration systems. They effectively eliminate typical issues such as high oil consumption and reduced efficiency due to pipe clogging. Furthermore, they are fully compatible with conventional mineral oils, making it easy to switch to these products. However, high concentrations of mineral oil can decrease their effectiveness. In addition, their compatibility with paints, seals, gaskets, and hoses is comparable to that of mineral oils, and no special precautions are necessary when switching from a mineral oil lubricant. These compressors are suitable for use in ammonia systems and can be either reciprocating or rotary screw compressors. Additionally, they can also be used in gas compressors and vacuum pumps in process systems where ammonia vapours are present.

CATEGORY

- Refrigeration Fluids

BENEFITS

- 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

PROPERTY

METHOD

VALUE

PROPERTY	METHOD	VALUE
Density @ 15 °C, kg/dm ³	ASTM D792	0.850
FOUT	ASTM D445	220
FOUT	ASTM D445	25.0
Viscosity index	ASTM D2270	>140
Pour point, °C	ASTM D97	-45
Flash point, °C	ASTM D92	265
Auto ignition point, °C	ASTM D959	360
TAN, mg KOH/g	ASTM D664	<1.0
Water content, ppm	ASTM D1744	<50
4-ball wear test - Welding load, kg	ASTM D2783	na
4-ball wear test - Scar mm, 1200 RPM 75 °C 20 kg/hr	ASTM D2783	na
Rust test 24h @ 100°C	ASTM D665A	None
Falex mm, 250 lbs for 10 min.	ASTM D3233	na
Foaming tendency ml, sequence I	ASTM D892	10/0
Demulsibility, 55 °C, 30 min	ASTM D2711	40/40/0
Copper corrosion 24h	ASTM D4048	1a

All data on this technical data sheet is indicative only

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