

COOL-PLUS PAO GEN 100

REFRIGERATION OILS

322201501

DYADE
LUBRICANTS



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 |
|---|------------|---------|
| Density @ 15 °C, kg/dm ³ | | 0.860 |
| FOUT | ASTM D445 | 104 |
| FOUT | 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 | ASTM D2783 | 150 |
| 4-ball wear test - Scar mm, 1200 RPM 75 °C 20 kg/hr | ASTM D2783 | 0.4 |
| Rust test 24h @ 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 24h | | 1a |

All data on this technical data sheet is indicative only

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