

COOL-PLUS MIS-C2 68

REFRIGERATION OILS

322204001



MISCIBLE CO2 REFRIGERATION COMPRESSOR FLUID

This high-end lubricant is specially formulated for use in refrigeration systems that use CO2. Its advanced formula provides superior miscibility and lubrication in high-pressure CO2 systems. It also offers excellent chemical and thermal stability, superior fluidity at low temperatures, and a long service life. This product uses double end capped technology. Specialty lubricants are needed for the development of trans-critical CO2 systems due to the high pressure and increased bearing loading. Traditional lubricants such as mineral oils and alkylbenzenes are generally not compatible with CO2. Although polyol ester (POE) synthetic lubricants exhibit good miscibility, they may experience a significant reduction in viscosity. On the other hand, polyalkylene glycols (PAGs) demonstrate partial miscibility with CO2 and maintain their viscometric properties without significant viscosity reduction, resulting in superior wear protection.

CATEGORY

- Refrigeration Fluids

BENEFITS

- Excellent miscibility with CO2 refrigerants
- Excellent thermal and oxidation stability and long life in CO2 systems
- Very high viscosity index for better compressor protection at elevated temperatures
- Very high flash & auto-ignition points for added safety
- Low volatility
- Excellent film strength and anti wear properties
- Very long life fluid
- Excellent carbon and varnish control
- Excellent rust & corrosion control
- Non-toxic
- Non-hazardous

PROPERTY

PROPERTY	METHOD	VALUE
Viscosity @ 40 °C, mm ² /s	ASTM D445	68
Viscosity @ 100 °C, mm ² /s	ASTM D445	15.7
Viscosity index	ASTM D2270	213
Pour point, °C	ASTM D97	-46
Flash point, °C	ASTM D92	>200
Water content, % mass	ASTM E284	<0.05
TAN, mg KOH/g	ASTM D974	<0.10
4-ball wear scar, 40kg/1hr, mm	ASTM D4172	0.53
Copper corrosion 24h @ 100 °C	ASTM D130	1a
Demulsibility @ 54 °C, 30 min	ASTM D2711	40/40/0

All data on this technical data sheet is indicative only

202312V01



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