

COOLMAX AB 46

Product code: 262200601

Alkyl benzene refrigeration compressor fluid

This lubricant is a premium quality refrigeration compressor lubricant of the alkyl benzene type. The synthetic hydrocarbon product can be used for very low temperature applications (-60 to -100 °C) on account of their superior miscibility characteristics with critical fluorocarbon refrigerants. They have excellent physical properties and high degree of chemical and thermal stability assurance with outstanding cleanliness.

This lubricant oil is recommended for all refrigeration compressor types; reciprocating (piston) or rotary (including modern screw type compressors). It is exceptionally well suited for use with fluorocarbon refrigerants, besides other common refrigerants such as ammonia. It should not, however, be used with Sulphur dioxide. The specific viscosity grade should be selected in accordance with the compressor manufacturers recommendations. Operating conditions (temperature and pressure) and refrigerant/oil mixture characteristics (solubility) are used by the manufacturer to determine the appropriate viscosity required.

Benefits & Advantages

- Excellent chemical stability preventing reaction with refrigerants
- High thermal stability for long service life
- Available in ISO viscosity grades: 46, 68 and 100
- Low floc point - withstands very low temperatures without wax precipitation with R12 refrigerant
- Solubility characteristics with halogenated refrigerants superior to mineral oils
- High dielectric strength - exceptionally low moisture content
- Good resistance to foaming

Gas type compatibility

The product is suitable for processing the following gases:

R502	R22	R402a	R401a
R409a	R124	R408a	

Typical Performance Data

Typical	Test Method	Value
Viscosity @ 40 °C	ASTM D445	45
Viscosity @ 100 °C	ASTM D445	7
Auto ignition point, °C	ASTM E659	324
Pour point, °C	ASTM D97	- 43
Flash point, °C	ASTM D92	216
Density @ 15 °C, kg/l	ASTM D4052	0.860
Copper corrosion, 24hr @ 100 °C	ASTM D4048	1a
TAN	ASTM D664	0.02

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