



## Coolmax AB

### Alkyl benzene refrigeration compressor fluid

#### Description

Coolmax AB series lubricants are premium quality refrigeration compressor lubricants of the alkyl benzene type. These synthetic hydrocarbon products 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.

#### Applications

Coolmax AB series lubricants oils are recommended for all refrigeration compressor types; reciprocating (piston) or rotary (including modern screw type compressors). They are exceptionally well suited for use with fluorocarbon refrigerants, besides other common refrigerants such as ammonia. They should not, however, be used with sulphur dioxide. The specific viscosity grade should be selected in accordance with the compressor manufacturers

#### Gas type compatibility

Coolmax AB is suitable for processing the following gases:

R502	R22	R402a	R401a
R409a	R124	R408a	

recommendations. Operating conditions (temperature and pressure) and refrigerant/oil mixture characteristics (solubility) are used by the manufacturer to determine the appropriate viscosity required.

#### Advantages

- Excellent chemical stability preventing reaction with refrigerants
- High thermal stability for long service life
- Available in ISO viscosity grades: V6 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



## Typical performance data

	Test method	AB 46	AB 68	AB 100
Viscosity @ 40 °C	ASTM D445	45	67	90
Viscosity @ 100 °C	ASTM D445	7	9.2	11.2
Auto ignition point, °C		324	332	341
Pour point, °C	ASTM D97	- 43	- 41	-35
Flash point, °C	ASTM D92	216	226	323
Density @ 15 °C, kg/l	ASTM D4052	0,860	0,860	0,860
Copper corrosion, 24hr		1a	1a	1a
TAN		0,02	0,02	0,02

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