

## RENISO C 55 E

### Synthetic refrigeration oil for CO<sub>2</sub> compressors

#### Description

RENISO C 55 E is a special synthetic refrigeration oil based on synthetic esters. Selected additives guarantee excellent wear protection, also under the influence of CO<sub>2</sub> in the compressor. RENISO C 55 E has an excellent solubility / miscibility with the refrigerant carbon dioxide (R 744).

#### Application

RENISO C 55 E was especially developed for use in refrigeration systems (deep-temperature systems, cascades, etc.) which are working with the refrigerant CO<sub>2</sub> (R 744). RENISO C 55 E has an excellent solubility / miscibility with CO<sub>2</sub> which guarantees the oil circulation in the refrigeration system, especially at low evaporation temperatures. RENISO C 55 E can be used in almost any application in industrial and commercial refrigeration, e.g. large-scale cooling plants.

#### Specifications

RENISO C 55 E is a refrigeration oil acc. to DIN 51503: KB – refrigeration oils for CO<sub>2</sub>.

#### Advantages

- High thermal stability
- High chemical stability with CO<sub>2</sub> refrigerant
- Excellent miscibility with CO<sub>2</sub> – also at low temperatures
- Excellent deep-temperature flowability
- Excellent lubrication at high pressure levels under CO<sub>2</sub> atmosphere
- Excellent experience in test facilities and prototype systems
- Recommended by leading compressor manufacturers

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### Synthetic refrigeration oil for CO<sub>2</sub> compressors

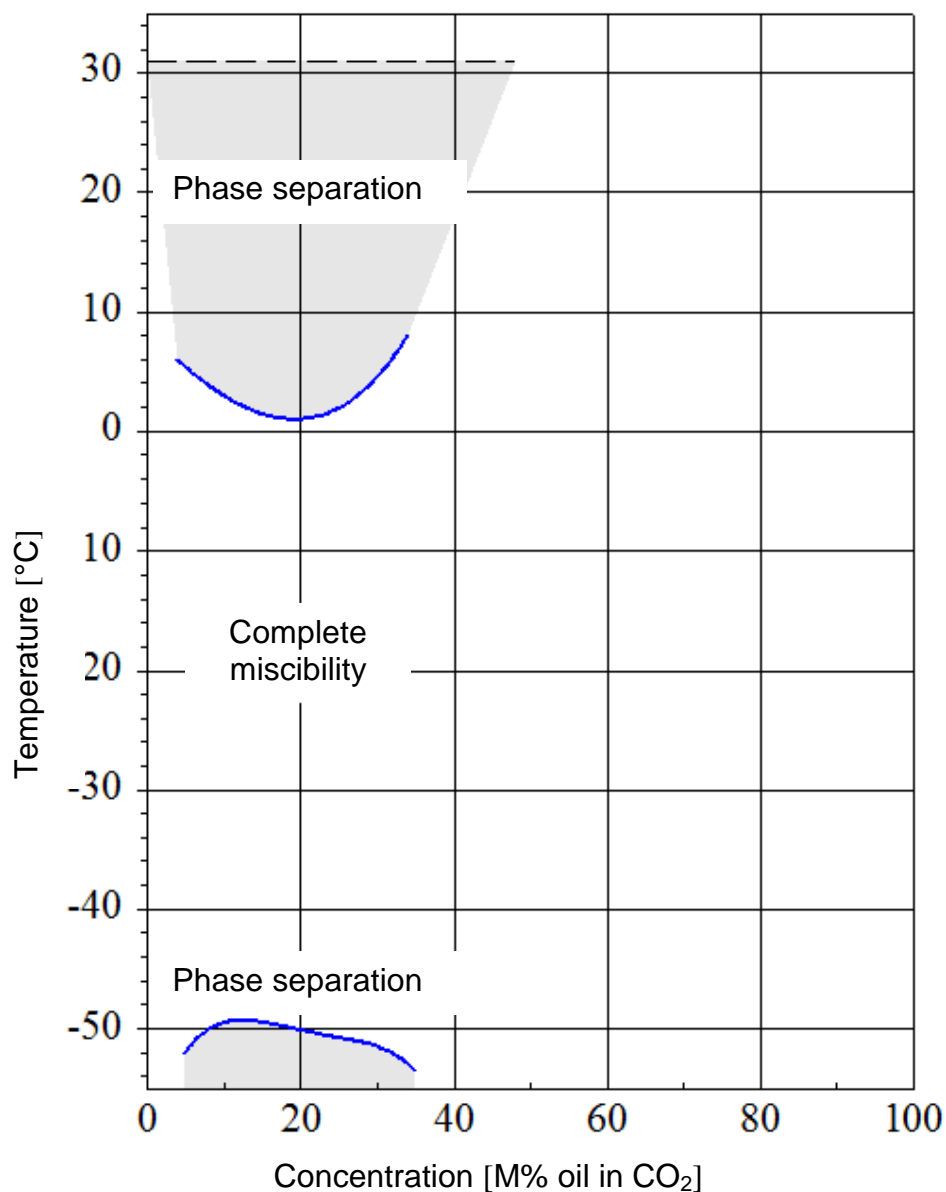
#### Typical technical data:

Properties	Unit		Test method
Colour		1	DIN ISO 2049
Density at 15 °C	kg/m <sup>3</sup>	1009	DIN 51757
Flashpoint	°C	286	DIN ISO 2592
Kinematic viscosity at 40 °C at 100 °C	mm <sup>2</sup> /s mm <sup>2</sup> /s	55 8.8	DIN 51562-1
Viscosity index	-	137	DIN ISO 2909
Pourpoint	°C	-48	DIN ISO 3016
Neutralisation number	mgKOH/g	0.03	DIN 51558-1
Water content	mg/kg	< 30	DIN 51777-2

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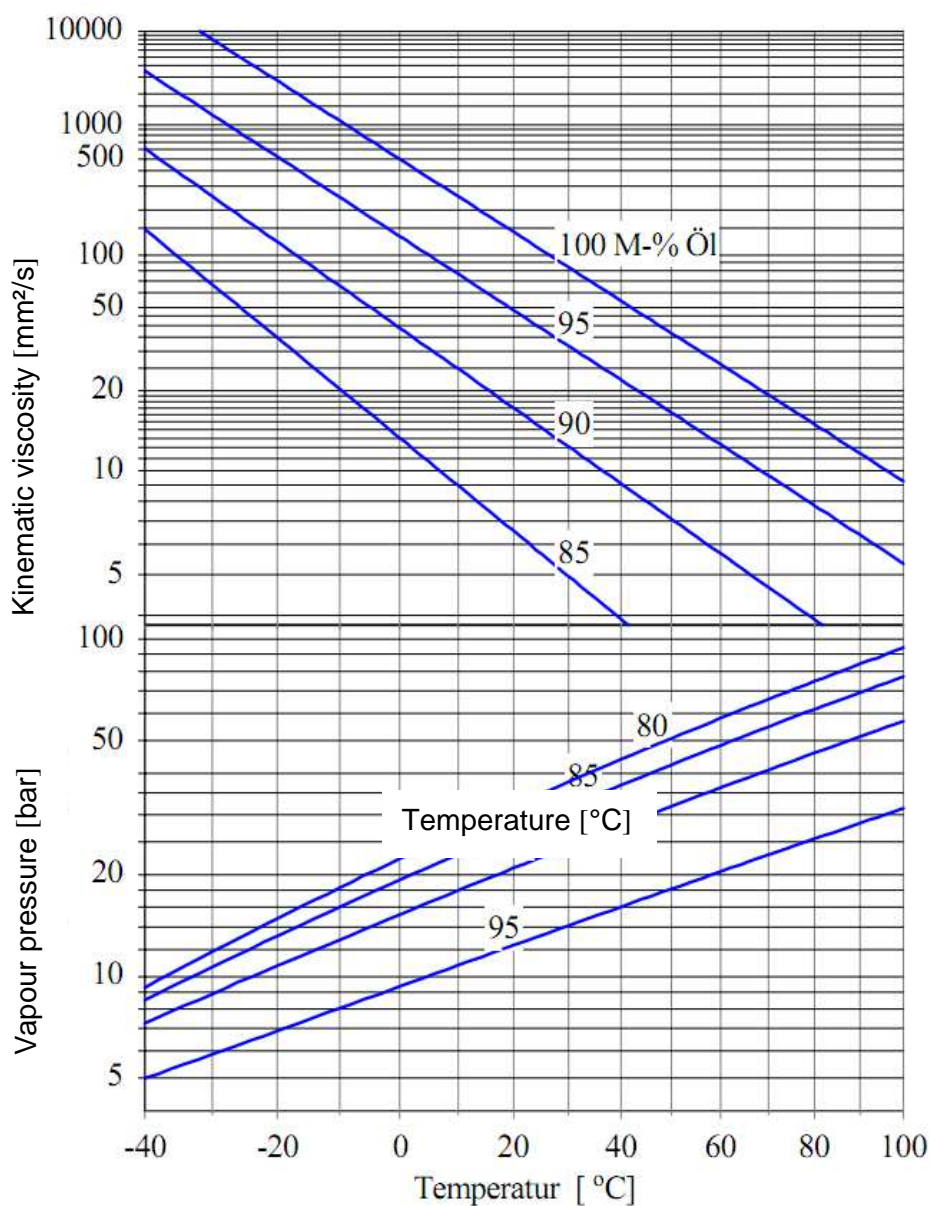
Miscibility behaviour (miscibility gap): RENISO C 55 E and CO<sub>2</sub>



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Kinematic viscosity and vapour pressure: RENISO C 55 E and CO<sub>2</sub>

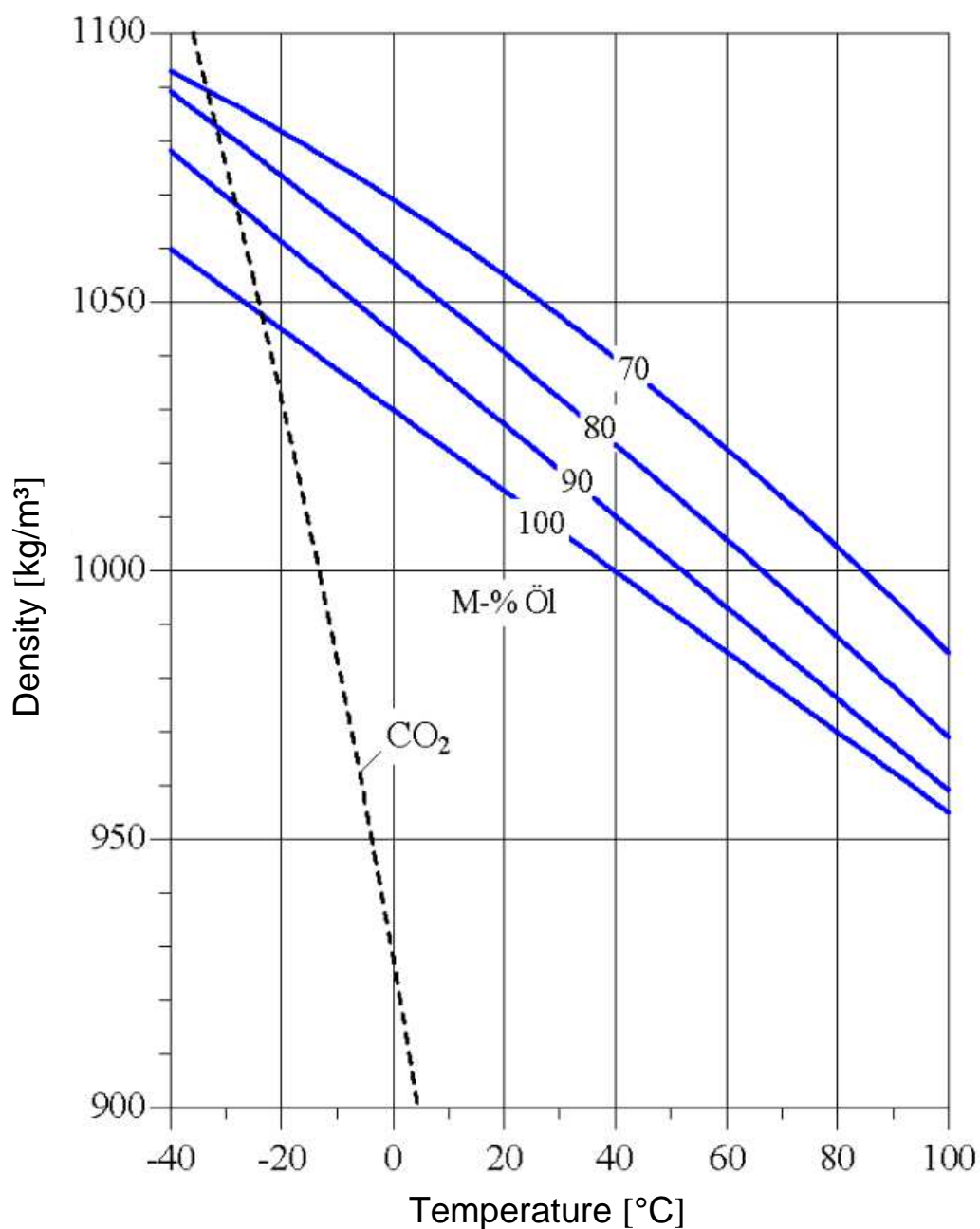




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Density: RENISO C 55 E and CO<sub>2</sub>



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