

### Description

RENISO C 85 E is a special synthetic refrigeration oil based on synthetic esters. Selected additives guarantee excellent wear protection, also under the influence of  $CO_2$  in the compressor. RENISO C 85 E has an excellent solubility / miscibility with the refrigerant carbon dioxide (R 744).

### Application

RENISO C 85 E was developed for use mainly in refrigeration systems (deep-temperature systems, cascades, etc.) which are working with the refrigerant CO<sub>2</sub> (R 744). RENISO C 85 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 85 E can be used in almost any application in industrial and commercial refrigeration, e.g. large-scale cooling plants. RENISO C 85 E can also be used in transcritical CO<sub>2</sub> cycles, e.g. air conditioning and heat pump systems, as well as container cooling systems.

### **Specifications**

RENISO C 85 E is a refrigeration oil acc. to DIN 51503: KB – refrigeration oils for  $CO_2$ .

NSF H2 registration: registration no. 146755

#### **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
- Used by leading compressor manufacturers. Approvals:

DORIN GEA BOCK GEA GRASSO JOHNSON CONTROLS INTERNATIONAL

FUCHS LUBRICANTS (UK) PLC New Century Street, Hanley GB-Stoke-on-Trent, Staffordshire, ST1 5HU



GB-Stoke-on-Trent, Staffordshire, ST1 5HU CONTACt-UK@tuChs-oil.com TS 504287 FM 58508 FM 609812 OHS 575079 EMS 71162 ENMS 621315 Health, Safety and Environment - information is provided for products in the relevant Safety Data Sheet. This provides guidance on potential hazards, precautions and first-aid measures, together with environmental effects and disposal of used products.

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ISO 14001



### Typical technical data:

Properties	Unit		Test Method
Colour		0.5	DIN ISO 2049
Density at 15 °C	kg/m <sup>3</sup>	993	DIN 51757
Flashpoint	°C	246	DIN ISO 2592
Kinematic viscosity at 40 °C at 100 °C	mm²/s mm²/s	80 10.6	DIN EN ISO 3104
Viscosity index	-	118	DIN ISO 2909
Pourpoint	°C	- 42	DIN ISO 3016
Neutralisation number	mgKOH/g	0.03	DIN 51558-1
Water content	mg/kg	< 30	DIN 51777-2

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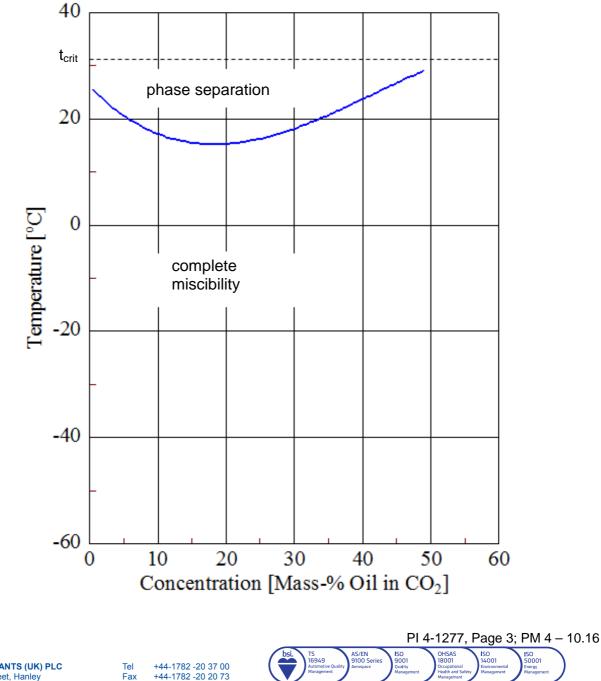


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Miscibility behaviour (miscibility gap): RENISO C 85 E and CO<sub>2</sub>



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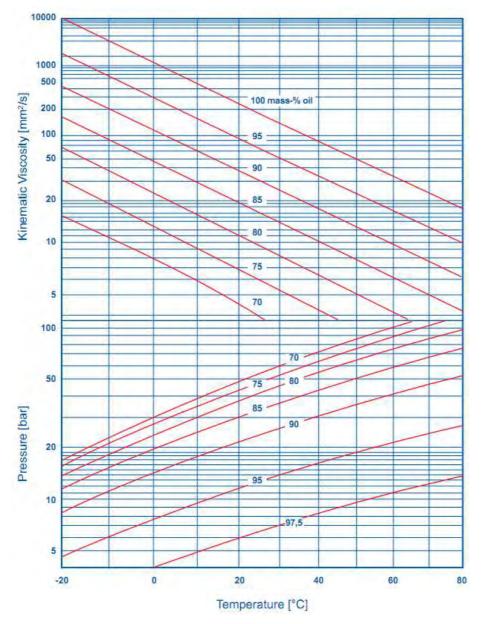
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ISU 50001



Kinematic viscosity and vapour pressure: RENISO C 85 E and CO<sub>2</sub>



All % figures represent mass % oil in the refrigerant.

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