



KÄLTEMASCHINENOEL BSE 60 K

Synthetic Refrigeration Oil for CO₂ Compressors

Description

KÄLTEMASCHINENOEL BSE 60 K is a special synthetic refrigeration oil based on synthetic esters. Selected additives guarantee excellent wear protection, also under the influence of CO₂ in the compressor. The product has an excellent solubility / miscibility with the refrigerant carbon dioxide (R 744).

Application

KÄLTEMASCHINENOEL BSE 60 K was especially developed for use in refrigeration systems (deep-temperature systems, cascades, etc.) which are working with the refrigerant CO₂ (R 744). The product has an excellent solubility / miscibility with CO₂ which guarantees the oil circulation in the refrigeration system, especially at low evaporation temperatures. KÄLTEMASCHINENOEL BSE 60 K can be used in almost any application in industrial and commercial refrigeration, e.g. large-scale cooling plants.

Advantages

- **High thermal stability**
- **High chemical stability with CO₂ refrigerant**
- **Excellent miscibility with CO₂ – also at low temperatures**
- **Excellent low-temperature flowability**
- **Excellent lubrication at high pressure levels under CO₂ atmosphere**





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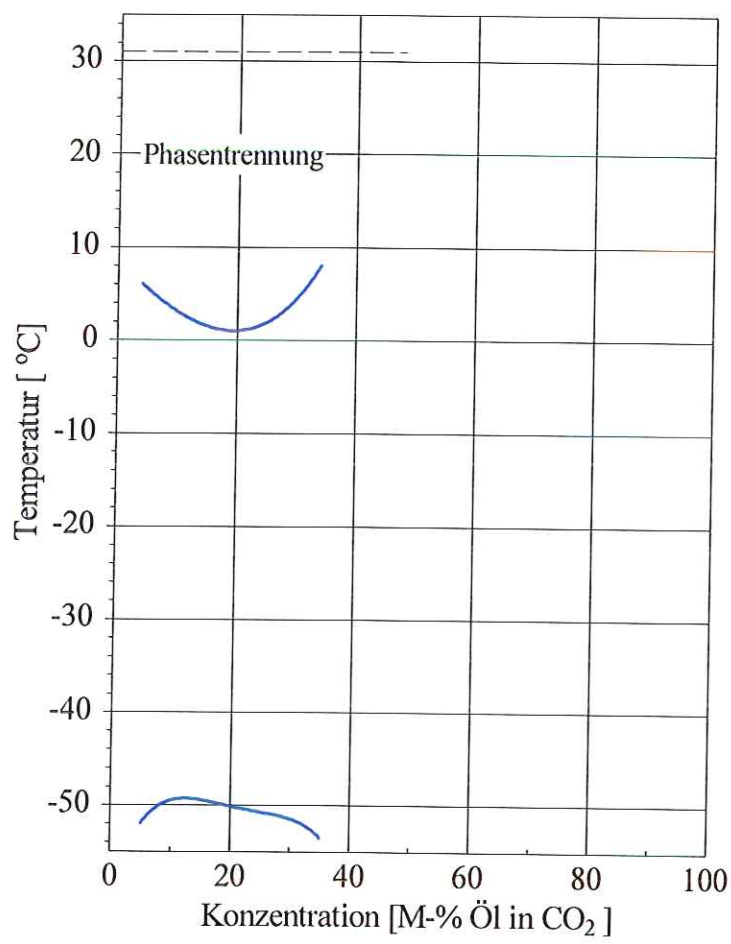
Typical technical data:

Properties	Unit		Test Method
Colour		1	DIN ISO 2049
Density at 15°C	kg/m ³	1009	DIN 51 757
Flashpoint	°C	286	DIN ISO 2592
Kinematic viscosity at 40°C	mm ² /s	55	DIN EN ISO 3104
at 100°C	mm ² /s	8.8	
Viscosity index	-	137	DIN ISO 2909
Pour point	°C	- 48	DIN ISO 3016
Neutralization number	mgKOH/g	0.03	DIN 51 558-3
Water content	mg/kg	< 30	DIN 51 777-2



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Miscibility gap: Kältemaschinenoel BSE 60 K – CO₂





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Kinematic viscosity and vapor pressure: Kältemaschinenöl BSE 60 K – CO₂

