

RENISO TRITON SEZ 100

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

Description

The refrigeration oil RENISO TRITON SEZ 100 is based on synthetic polyol ester that were especially developed for use with chlorine-free, fluorinated hydrocarbons. RENISO TRITON SEZ 100 refrigeration oil is miscible and compatible with HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

Application

The RENISO TRITON SEZ 100 is outstandingly suited for all refrigeration circuits, in which chlorine-free HFC/FC refrigerants, e.g., R134a, R404A or R410A are used. RENISO TRITON SEZ 100 refrigeration oil is also suitable for HFO and HFO/HFC refrigerants. Depending on the viscosity the refrigeration oil is recommended for hermetical, semi-hermetical and open piston compressors and for screw-type and turbo-compressors. RENISO TRITON SEZ 100 is especially suitable for deep-freeze systems operating with R23.

RENISO TRITON SEZ 100 product is also suitable for hydrocarbon refrigerants (e.g. propane, polypropylene, isobutane) and R22. If RENISO TRITON SEZ 100 is used with the above mentioned HC refrigerant its recommend to contact the FUCHS application engineers.

Specifications

RENISO TRITON SEZ 100 lubricant fulfill and exceed the requirements acc. to DIN 51503-1, Groups KC, KD, KE.

Advantages/ Benefits

- Special synthetic polyol ester
- Stable lubrication film even at high temperatures, outstanding lubricity
- Excellent miscibility with HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends
- Very high thermal and chemical stability in the presence of fluorinated refrigerants
- Good viscosity-temperature behavior
- Excellent cold temperature flowability
- Secure oil return from the system, good heat transfer
- Good compatibility with elastomers and materials normally used in refrigeration circuits
- Approved by leading compressor manufacturers
- Ultra-dried

Note

Because of their chemical structure, ester-based oils tend to absorb water. For this reason, RENISO TRITON SEZ 100 should be in contact with ambient air only for a short time. When opened, the content should be used up in short time.

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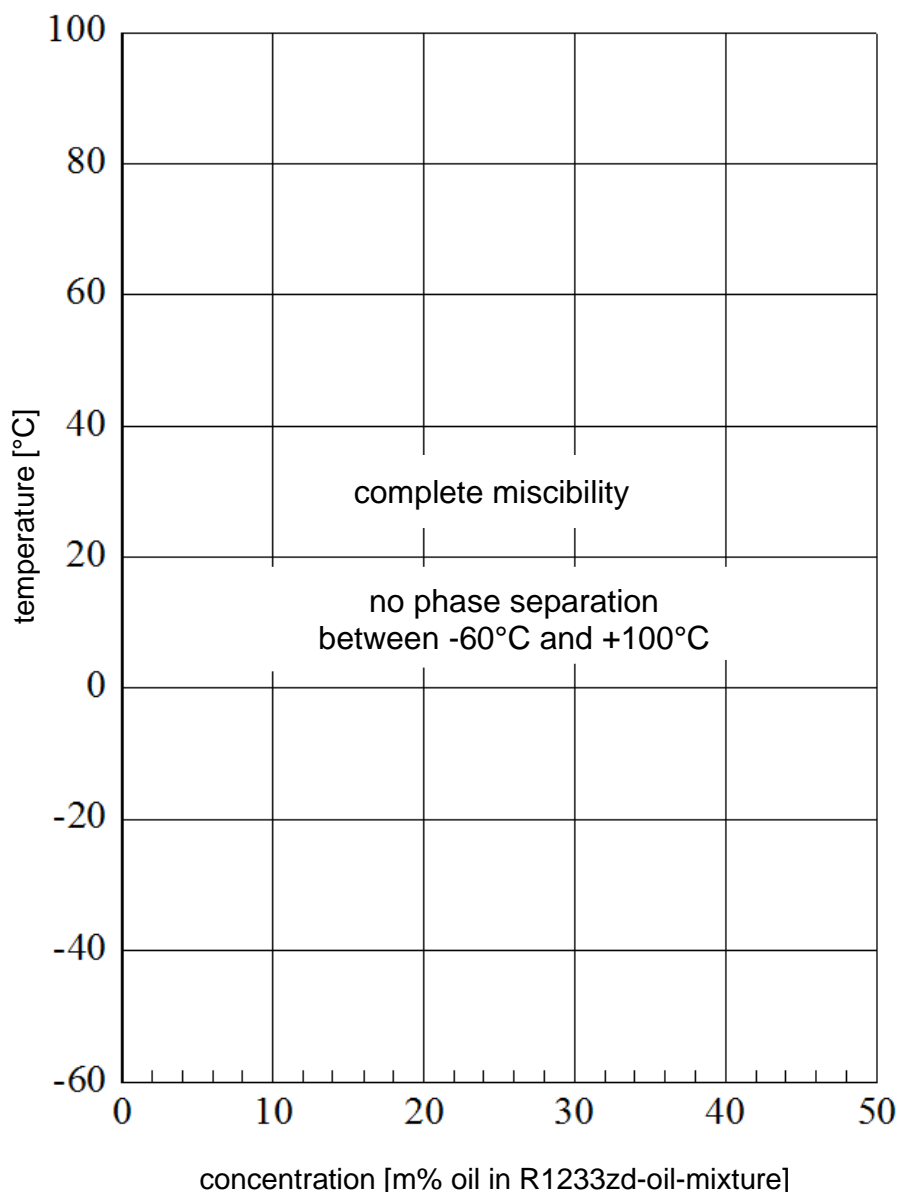
Typical data:

Product name		RENISO TRITON SEZ 100	
Properties	Unit		Test method
Density at 15 °C	kg/m ³	970	DIN 51757
Flash point	°C	266	DIN ISO 2592
Colour	-	0.5	DIN ISO 2049
Kinematic viscosity at 40 °C	mm ² /s	100	DIN EN ISO 3104
at 100 °C	mm ² /s	11.4	
Viscosity index	-	100	DIN ISO 2909
Pourpoint	°C	-30	DIN ISO 3016
Neutralisation number	mgKOH/g	0.03	DIN 51558-1
Water content	mg/kg	< 50	DIN 51777-2

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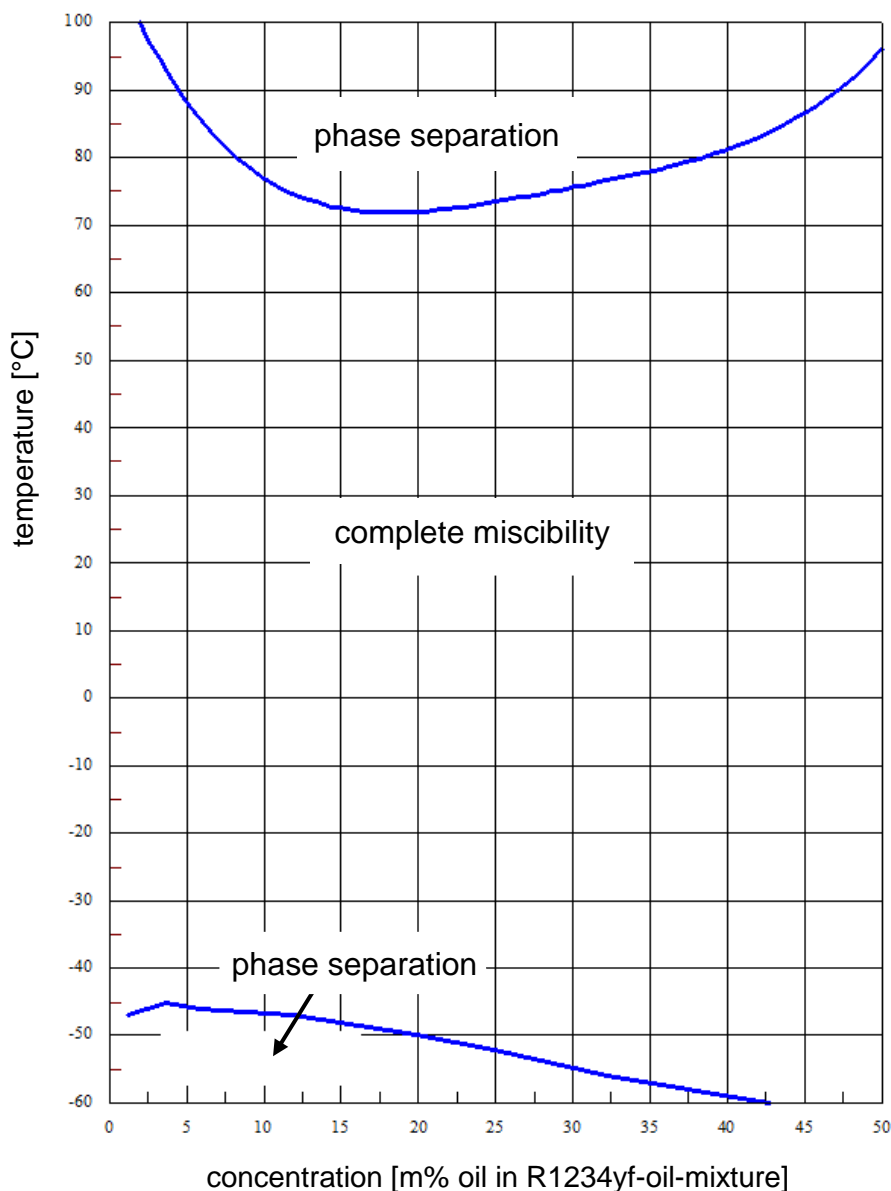
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R1233zd



RENISO TRITON SEZ 100

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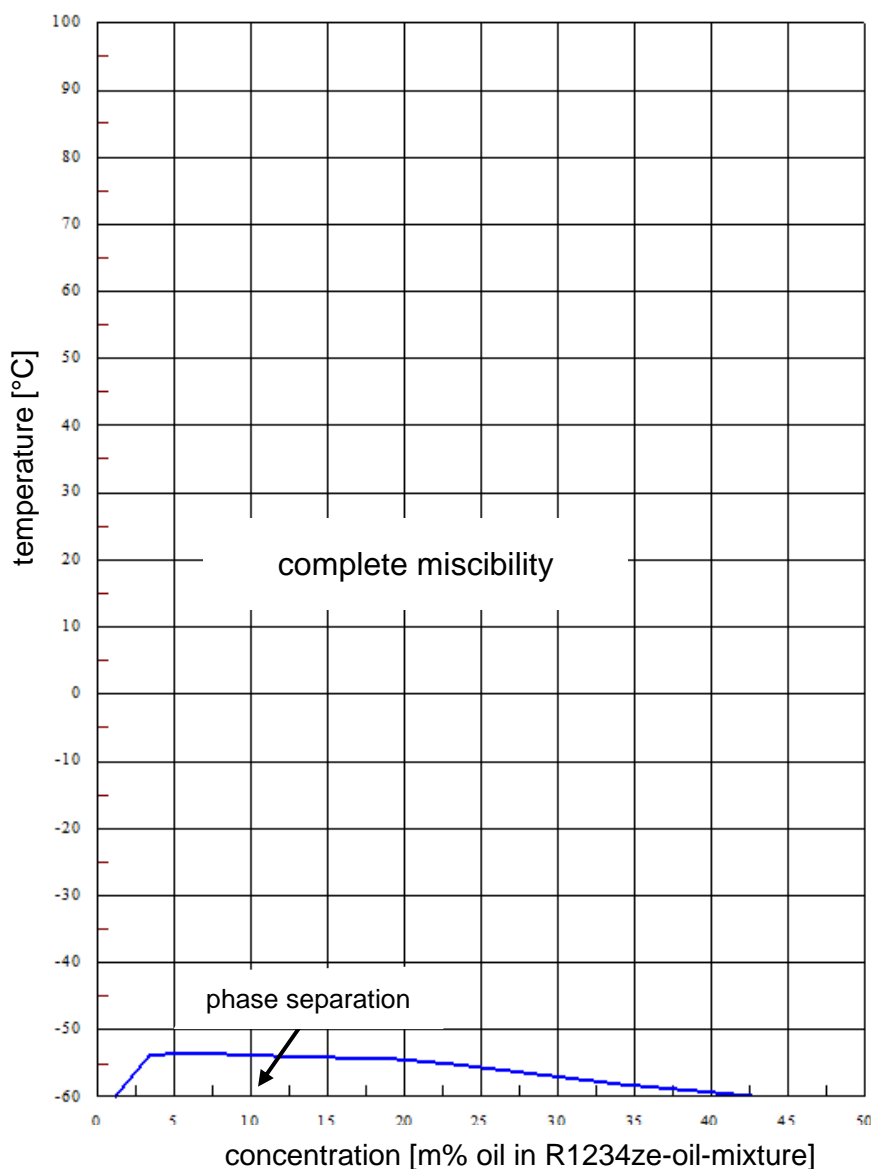
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R1234yf



RENISO TRITON SEZ 100

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

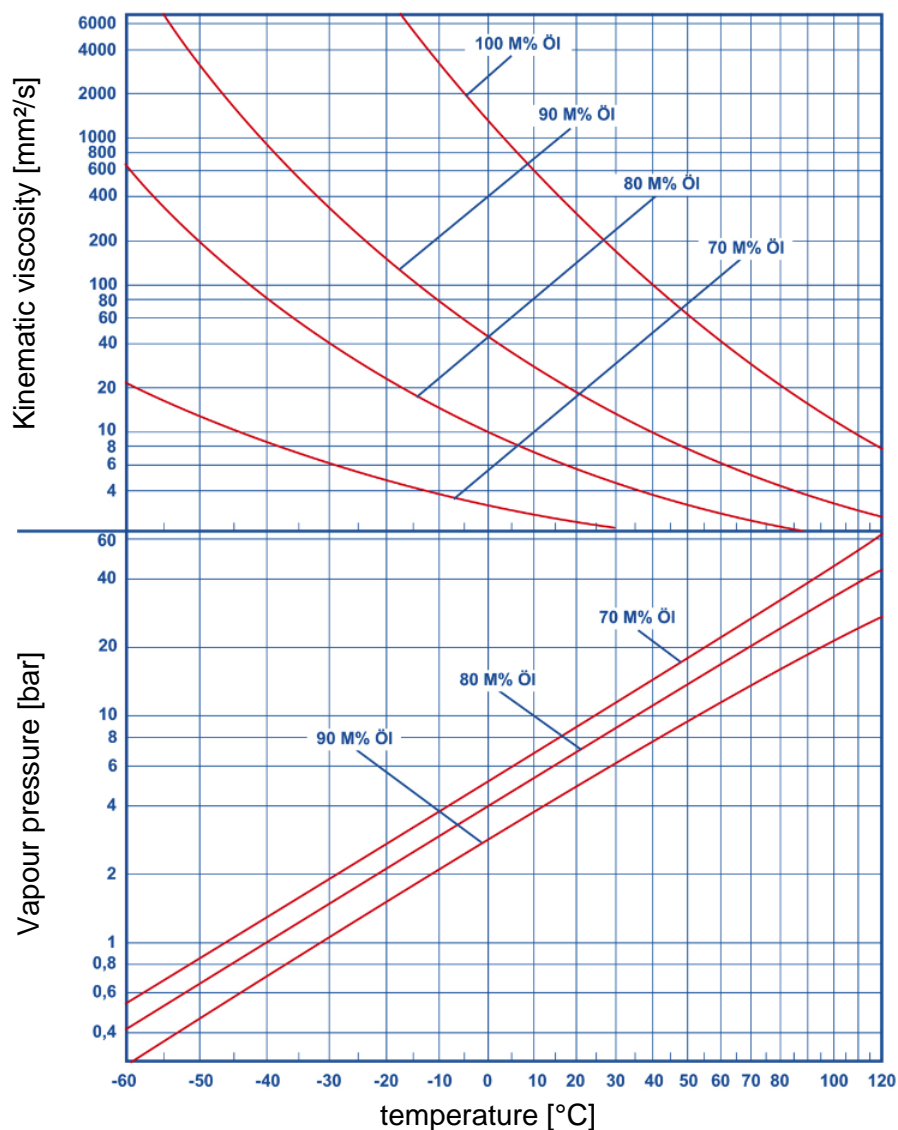
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R1234ze



RENISO TRITON SEZ 100

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

Kinematic viscosity and vapour pressure: RENISO TRITON SEZ 100 and R1270

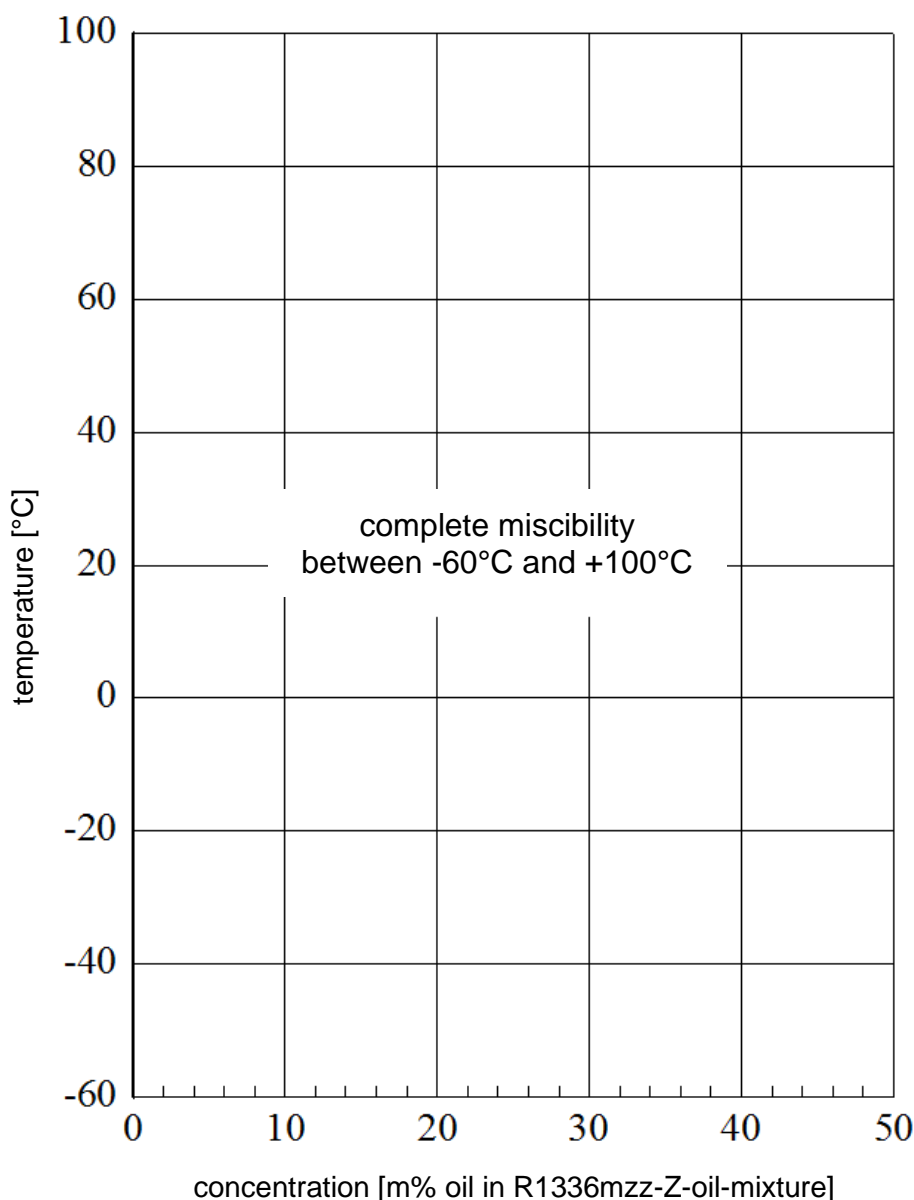


All % figures represent m% oil in the refrigerant-oil mixture.

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Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

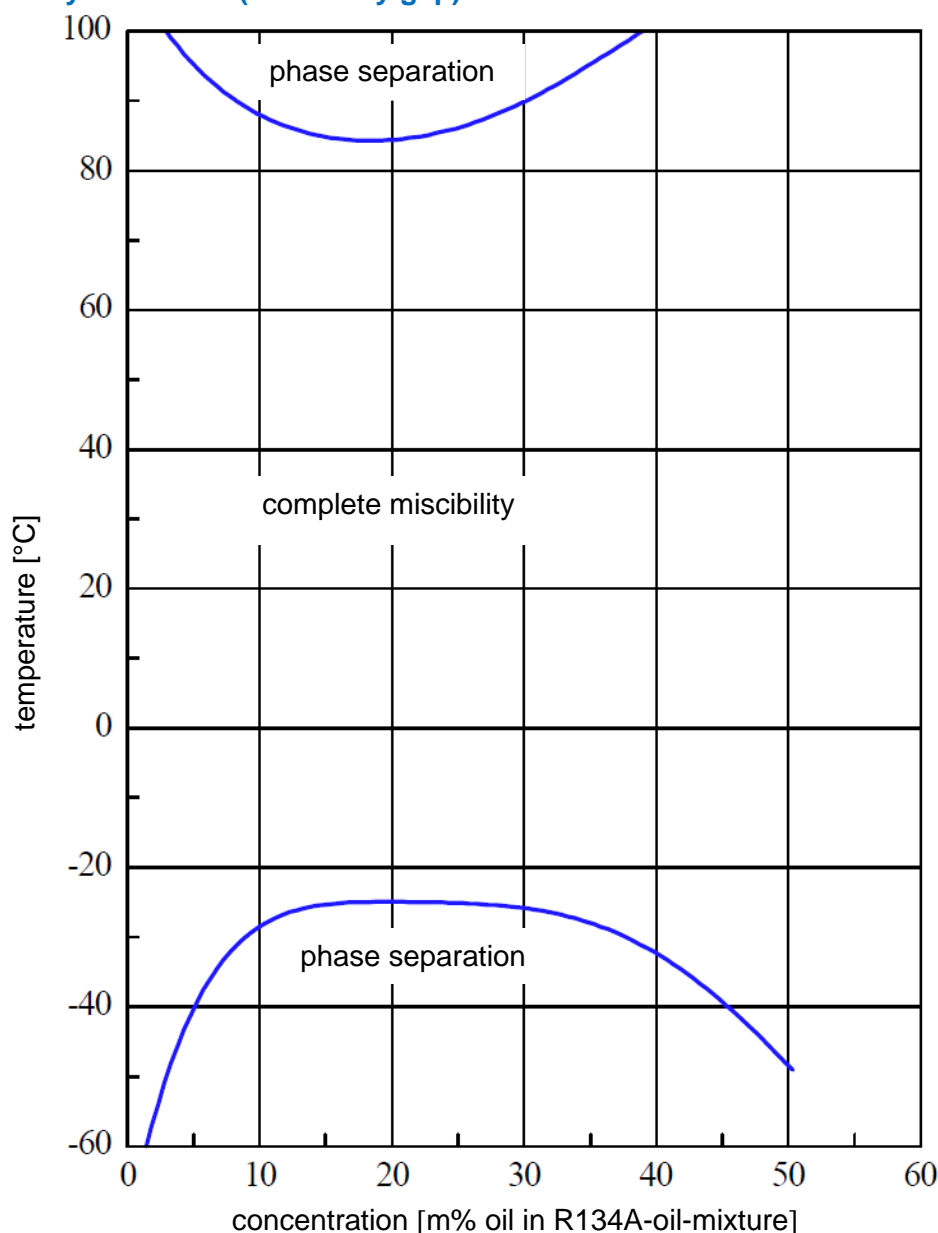
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R1336mzz-Z



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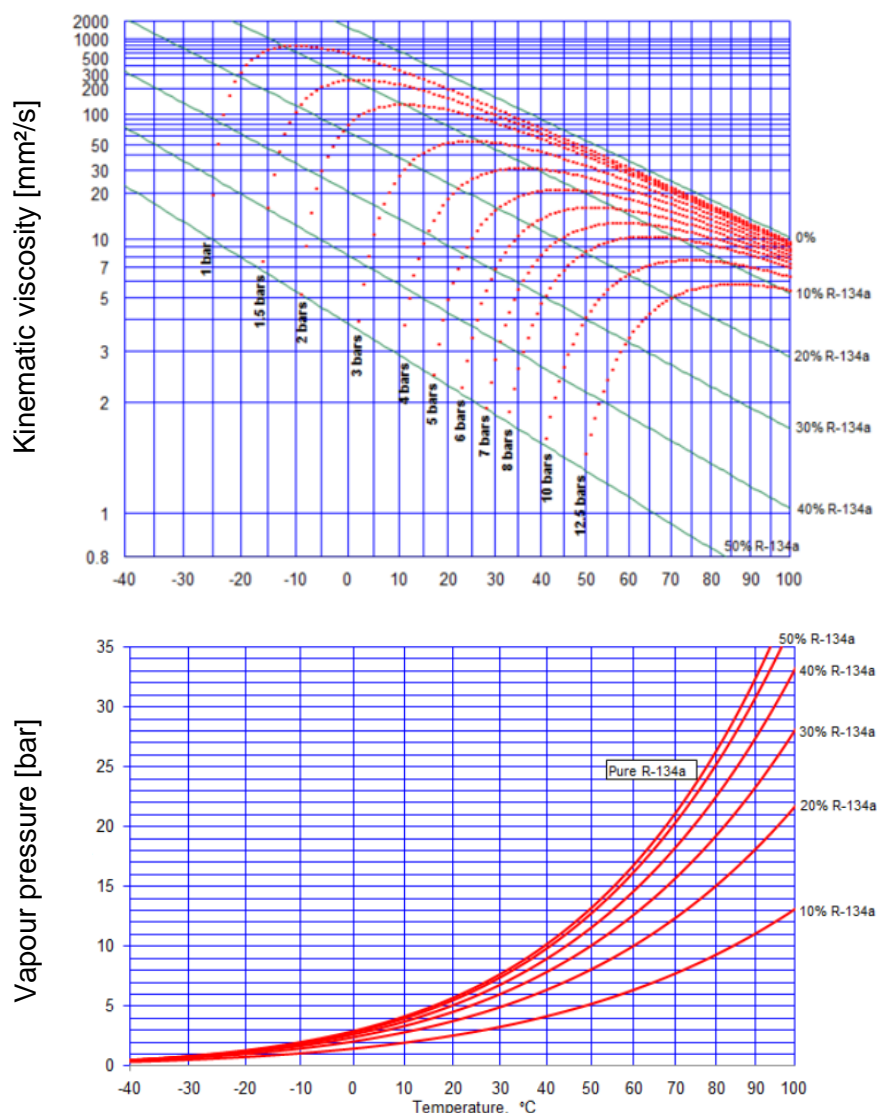
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R134A



RENISO TRITON SEZ 100

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

Kinematic viscosity and vapour pressure: RENISO TRITON SEZ 100 and R134A

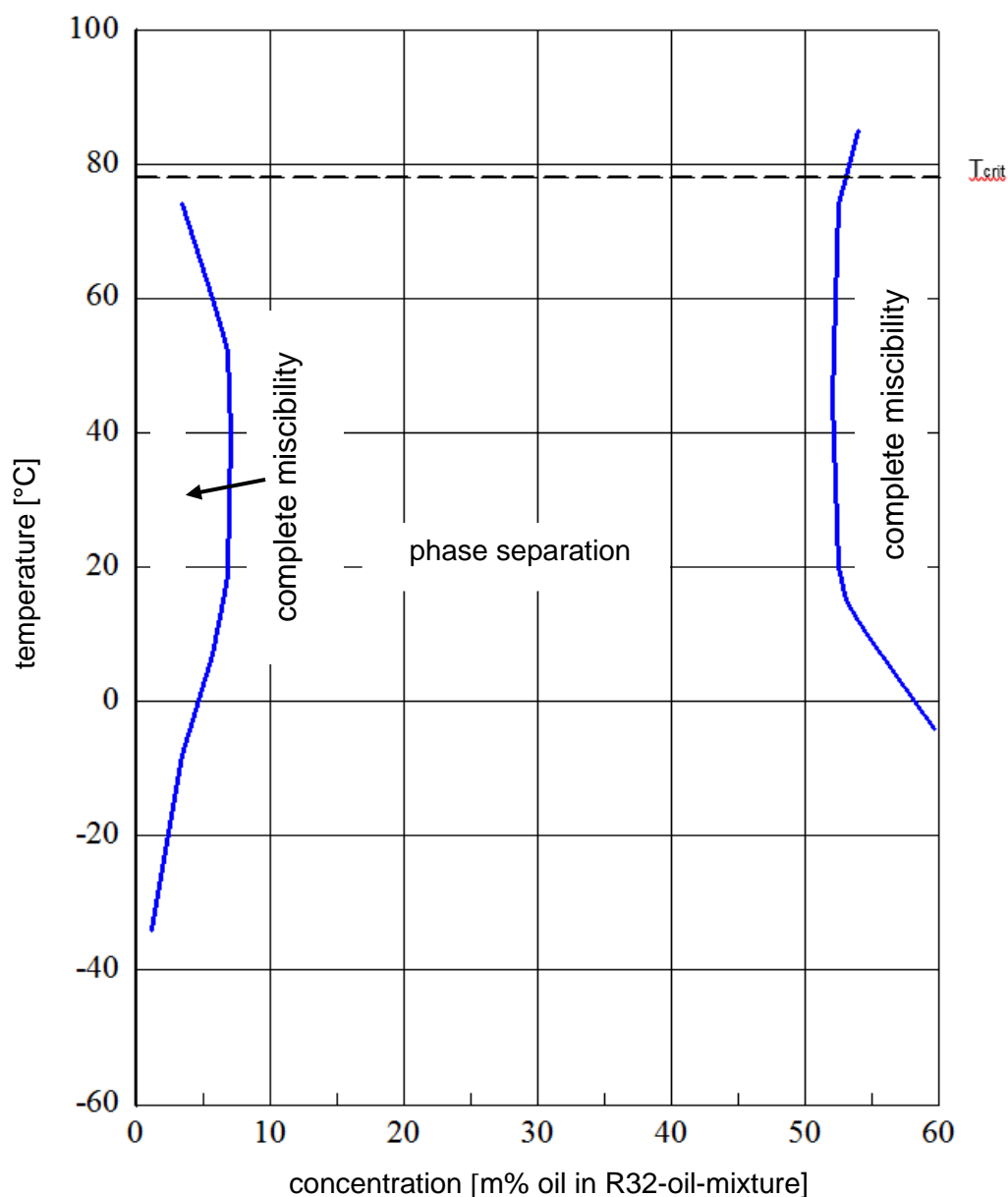


All % figures represent m% refrigerant in the refrigerant-oil mixture.

RENISO TRITON SEZ 100

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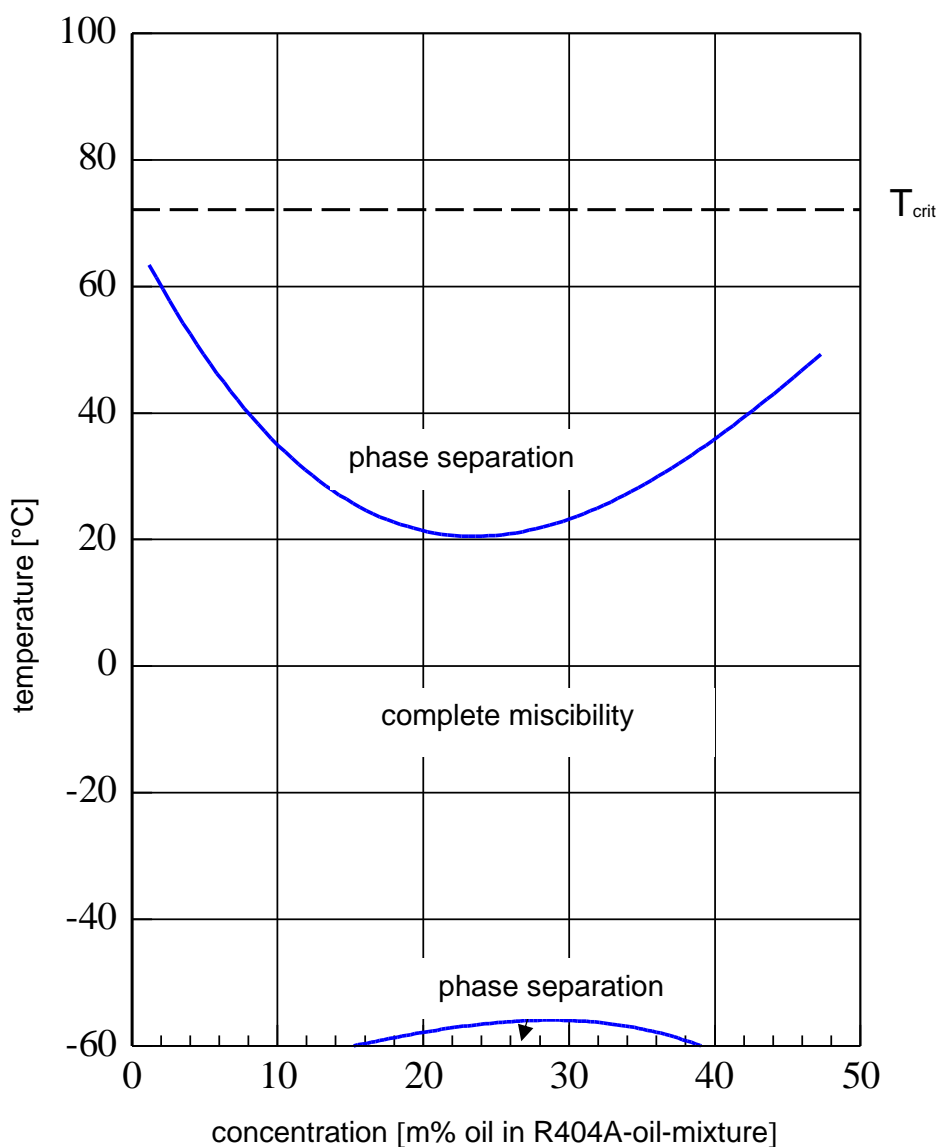
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R32



RENISO TRITON SEZ 100

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

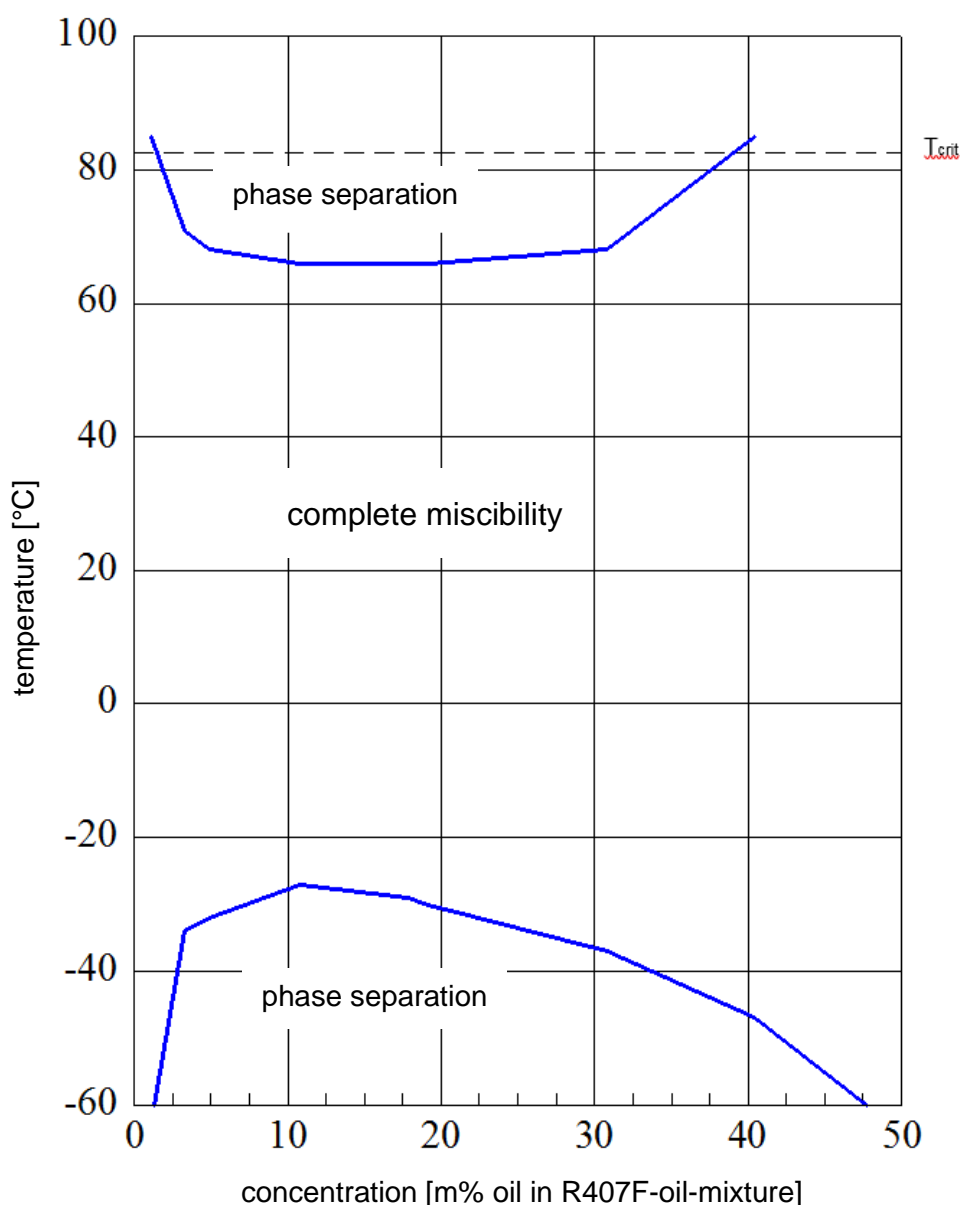
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R404A



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Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

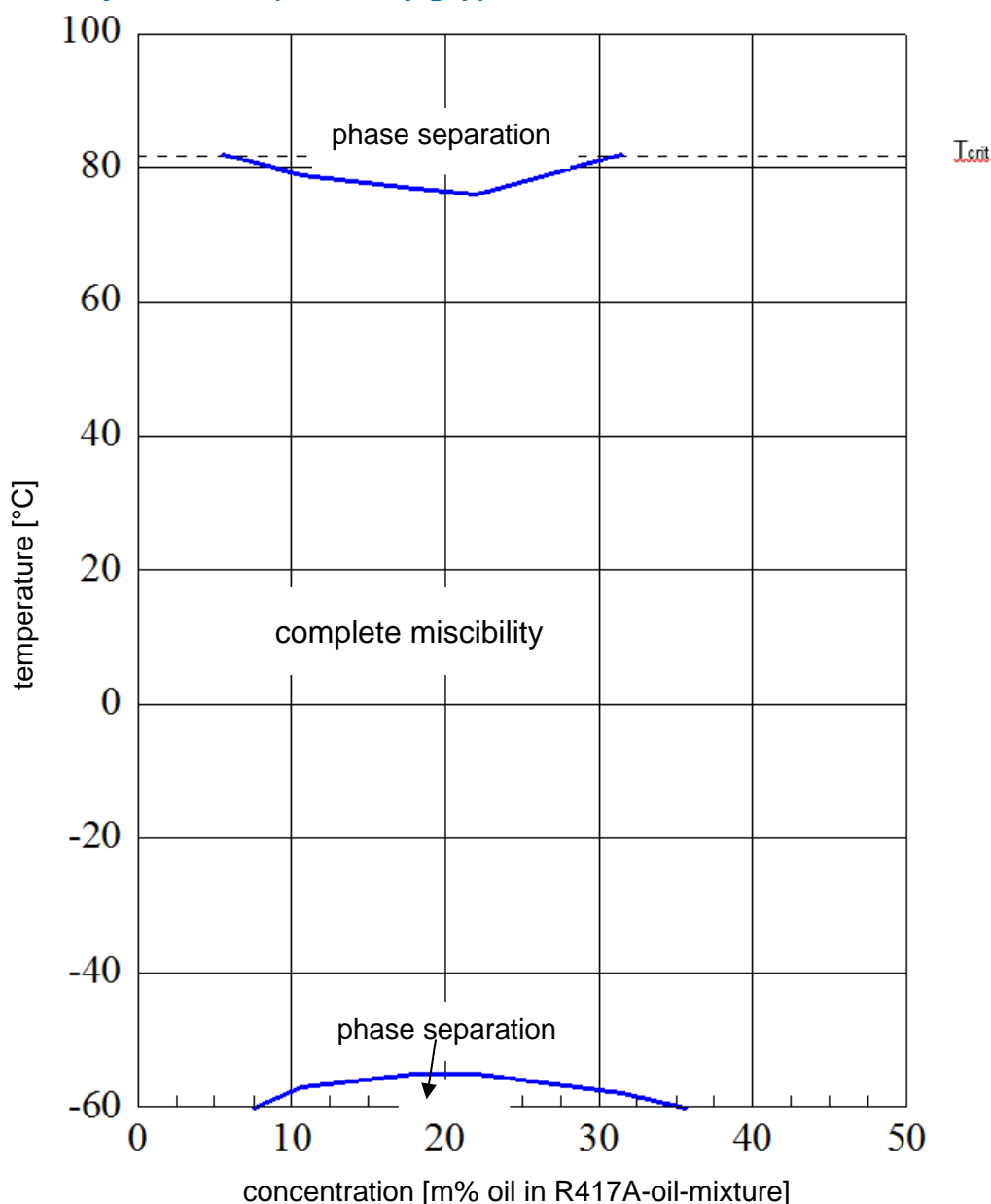
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R407F



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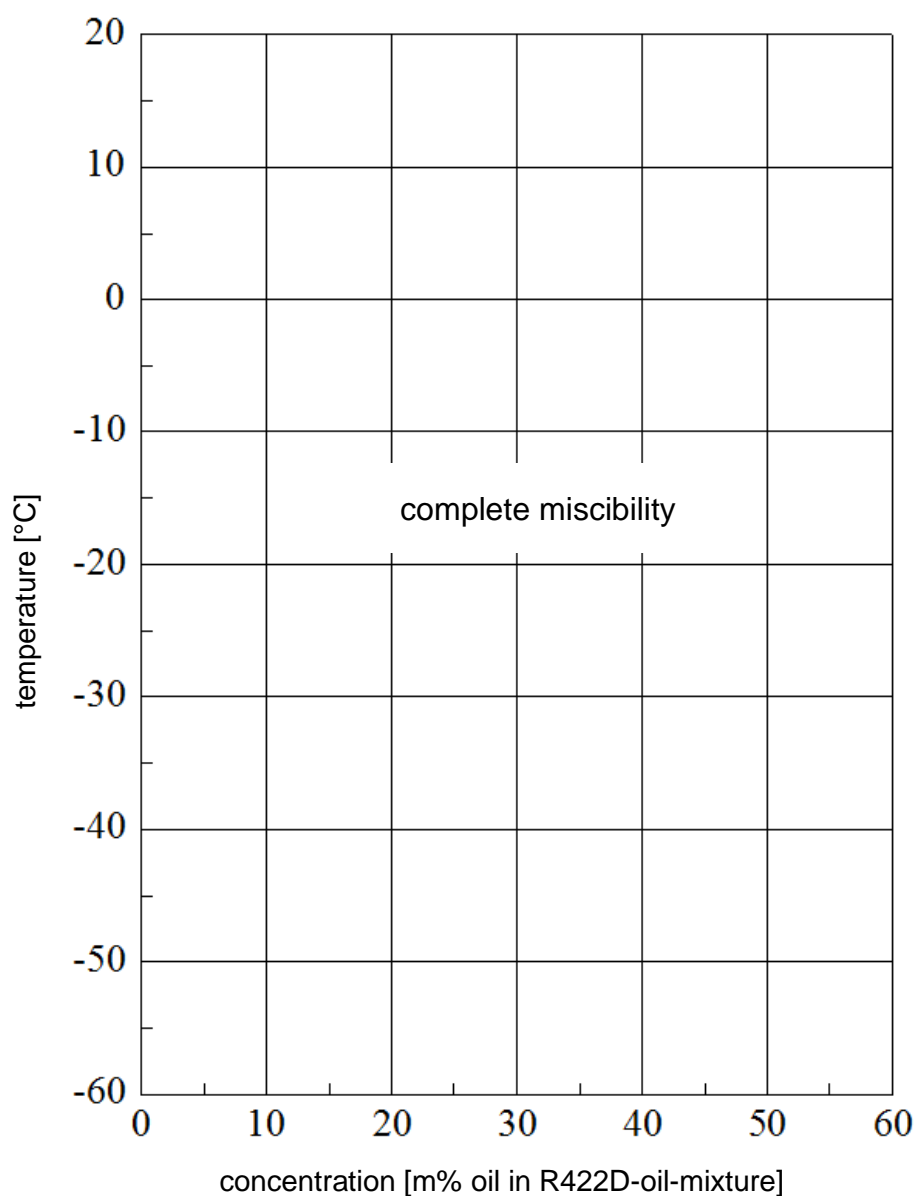
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R417A



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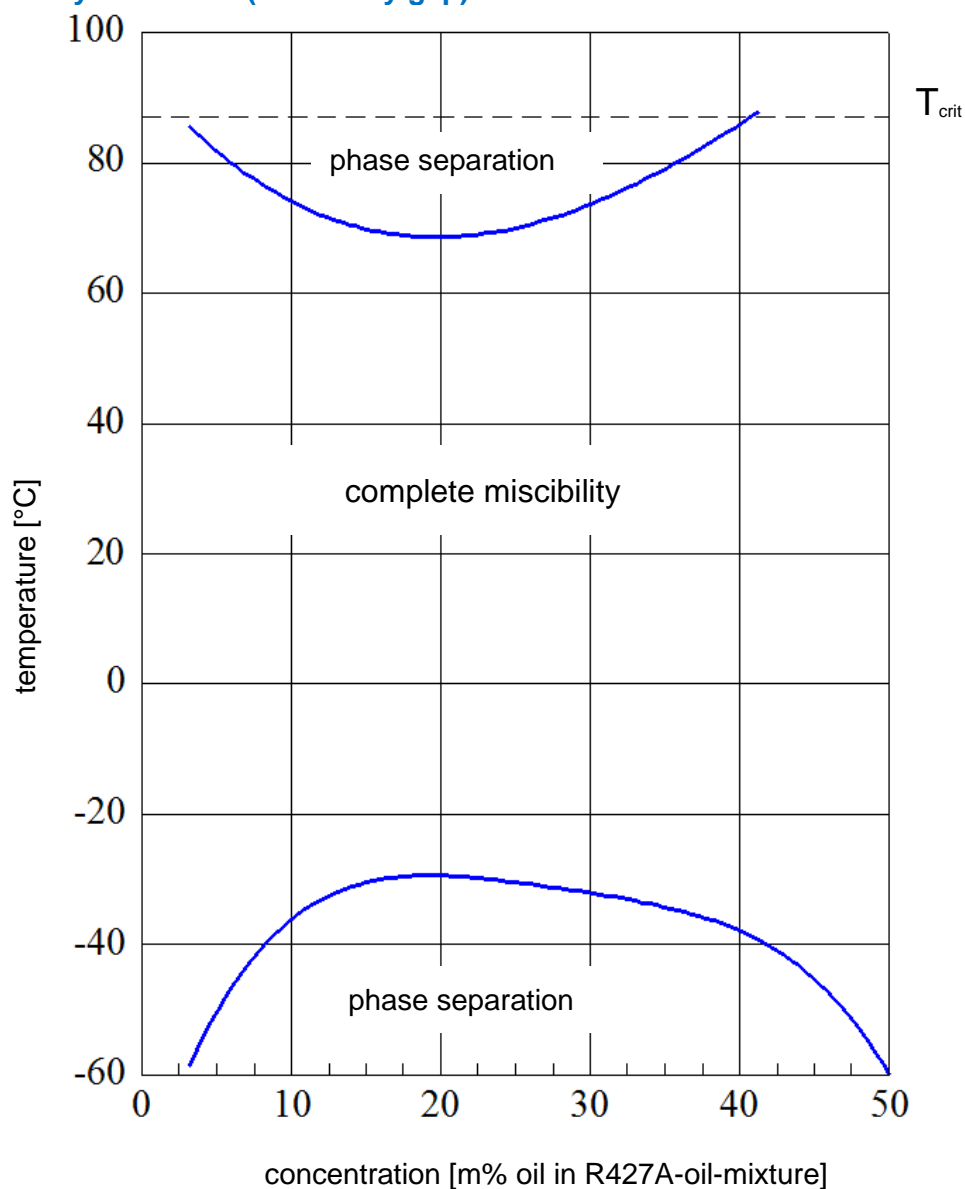
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R422D



RENISO TRITON SEZ 100

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

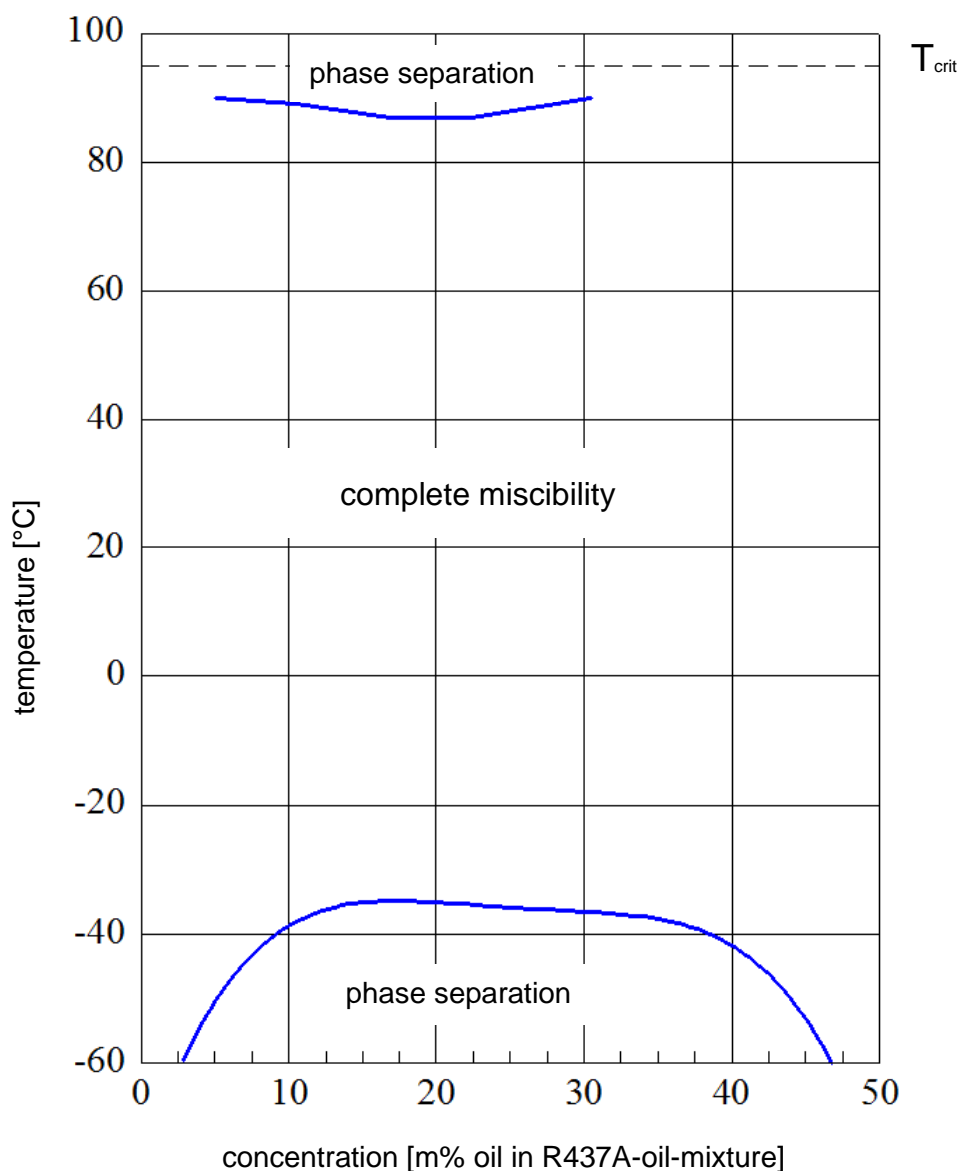
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R427A



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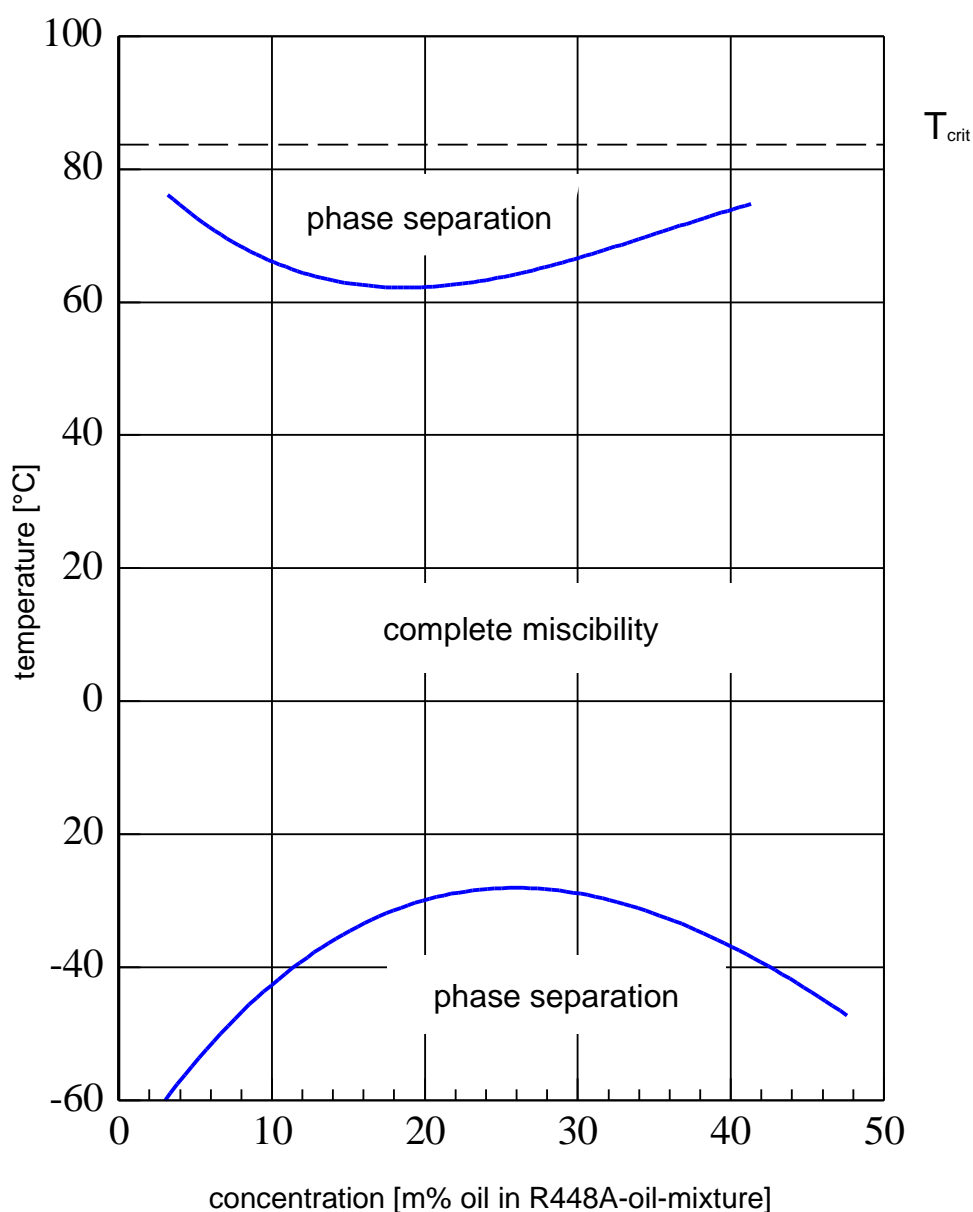
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R437A



RENISO TRITON SEZ 100

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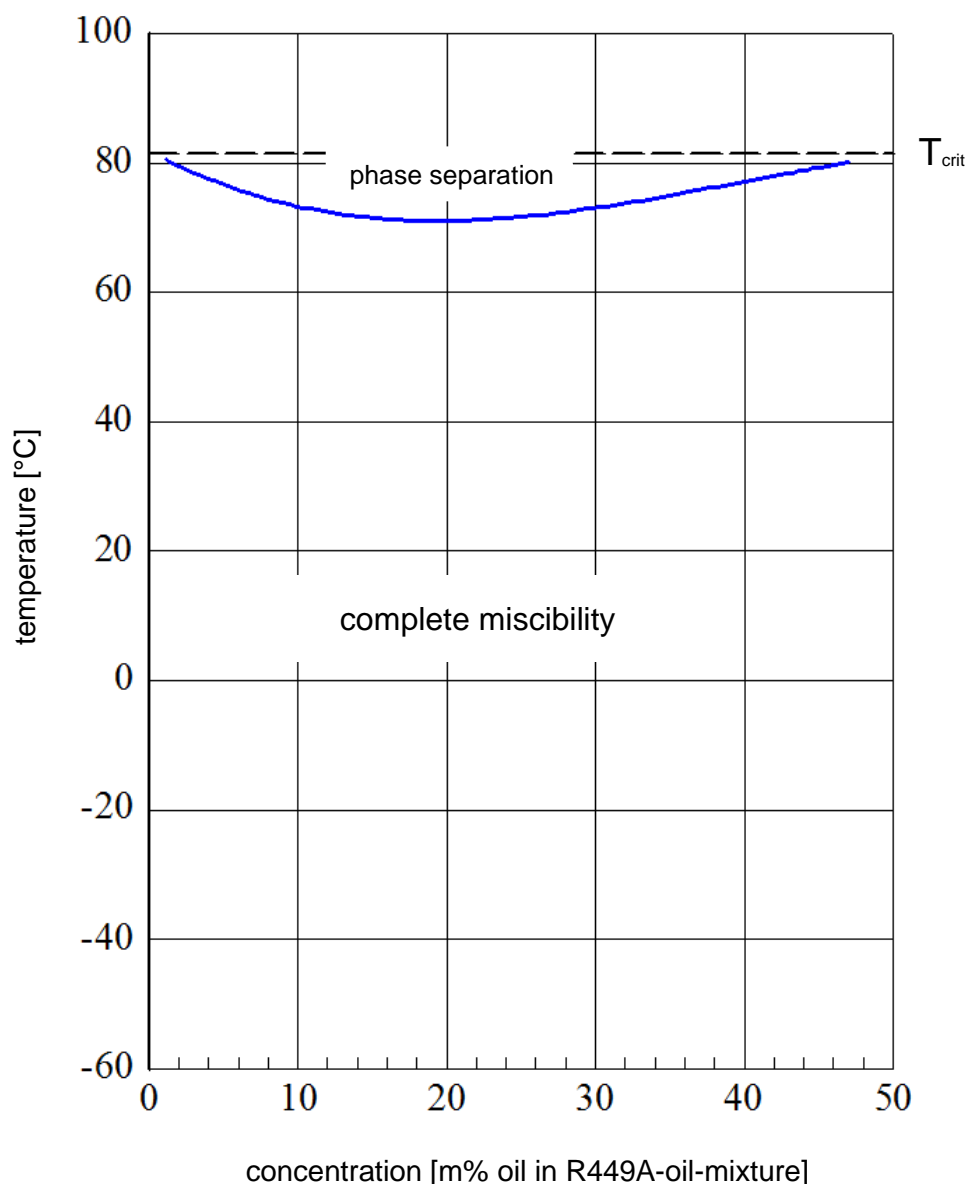
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R448A



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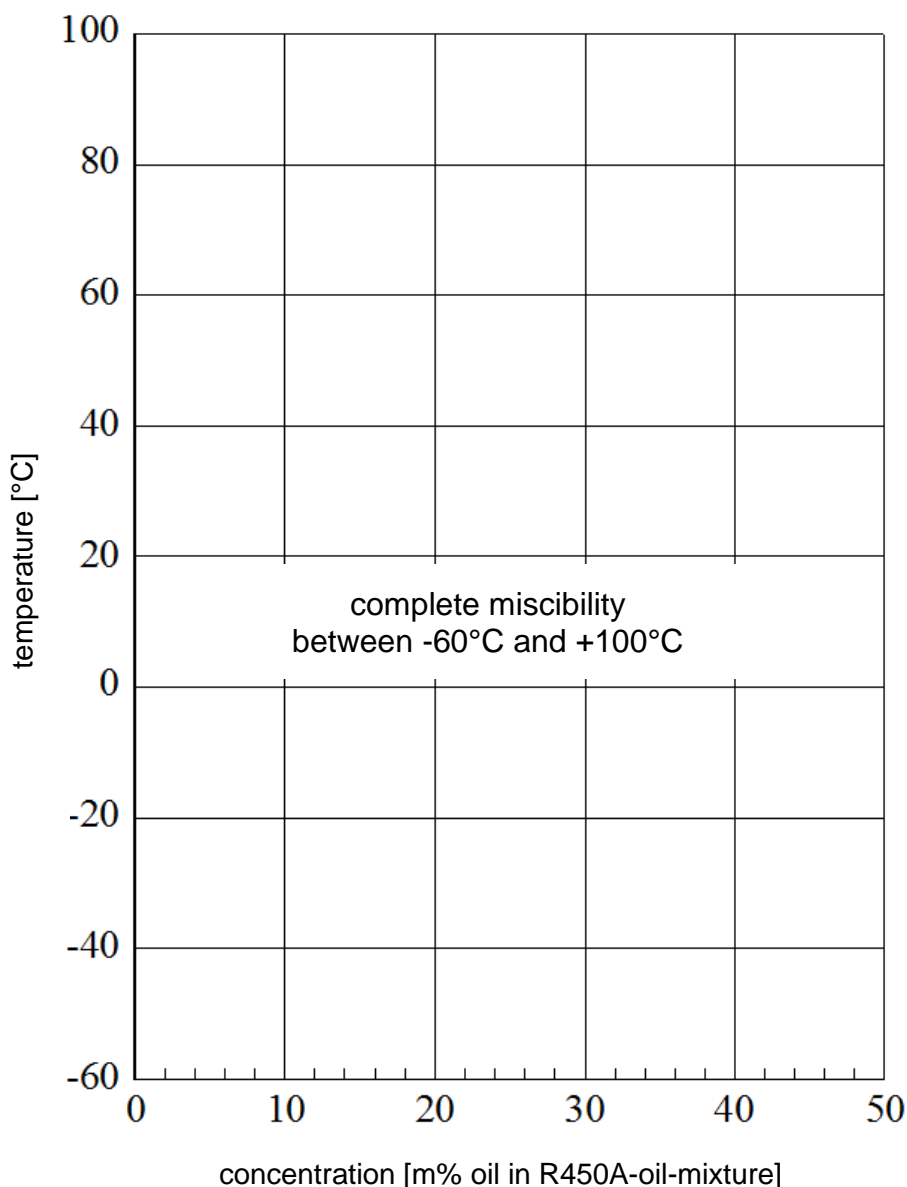
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R449A



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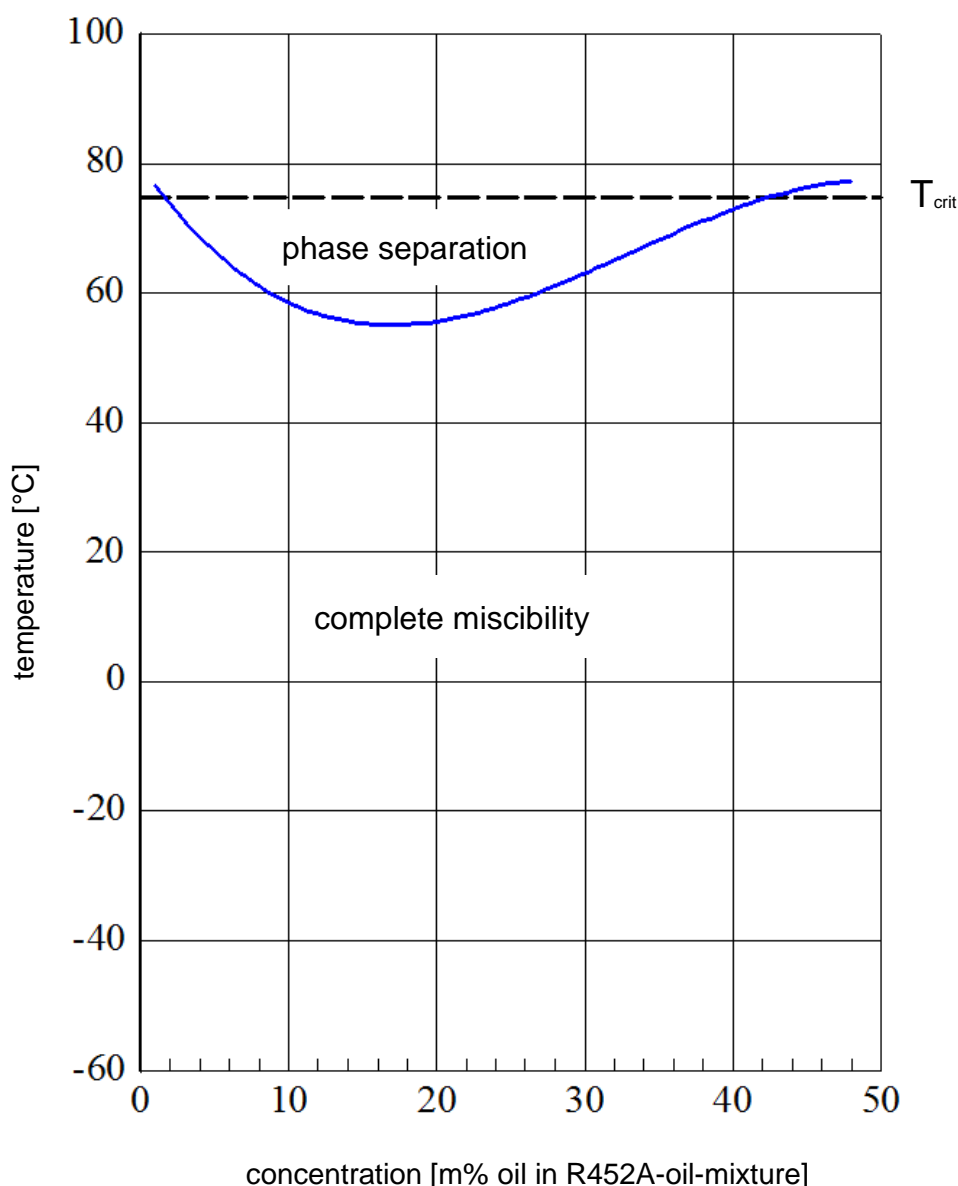
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R450A



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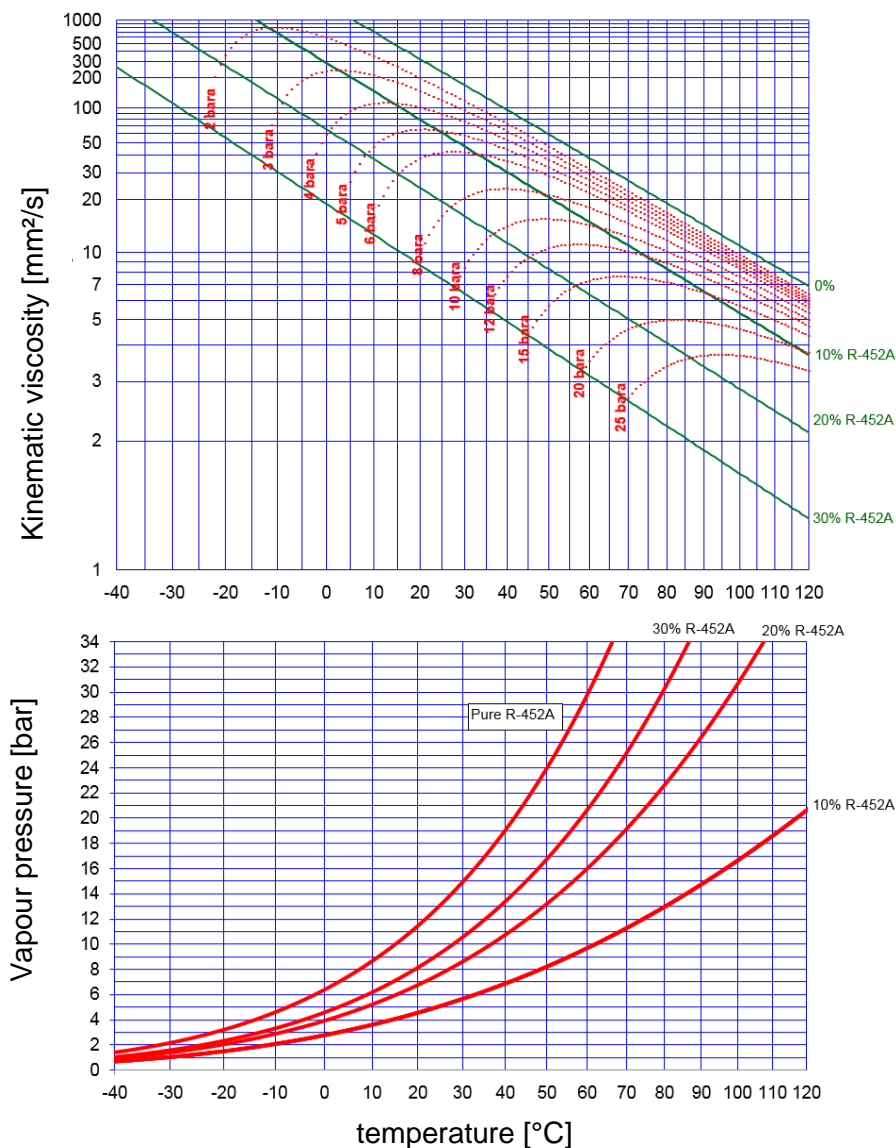
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R452A



RENISO TRITON SEZ 100

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

Kinematic viscosity and vapour pressure: RENISO TRITON SEZ 100 and R452A

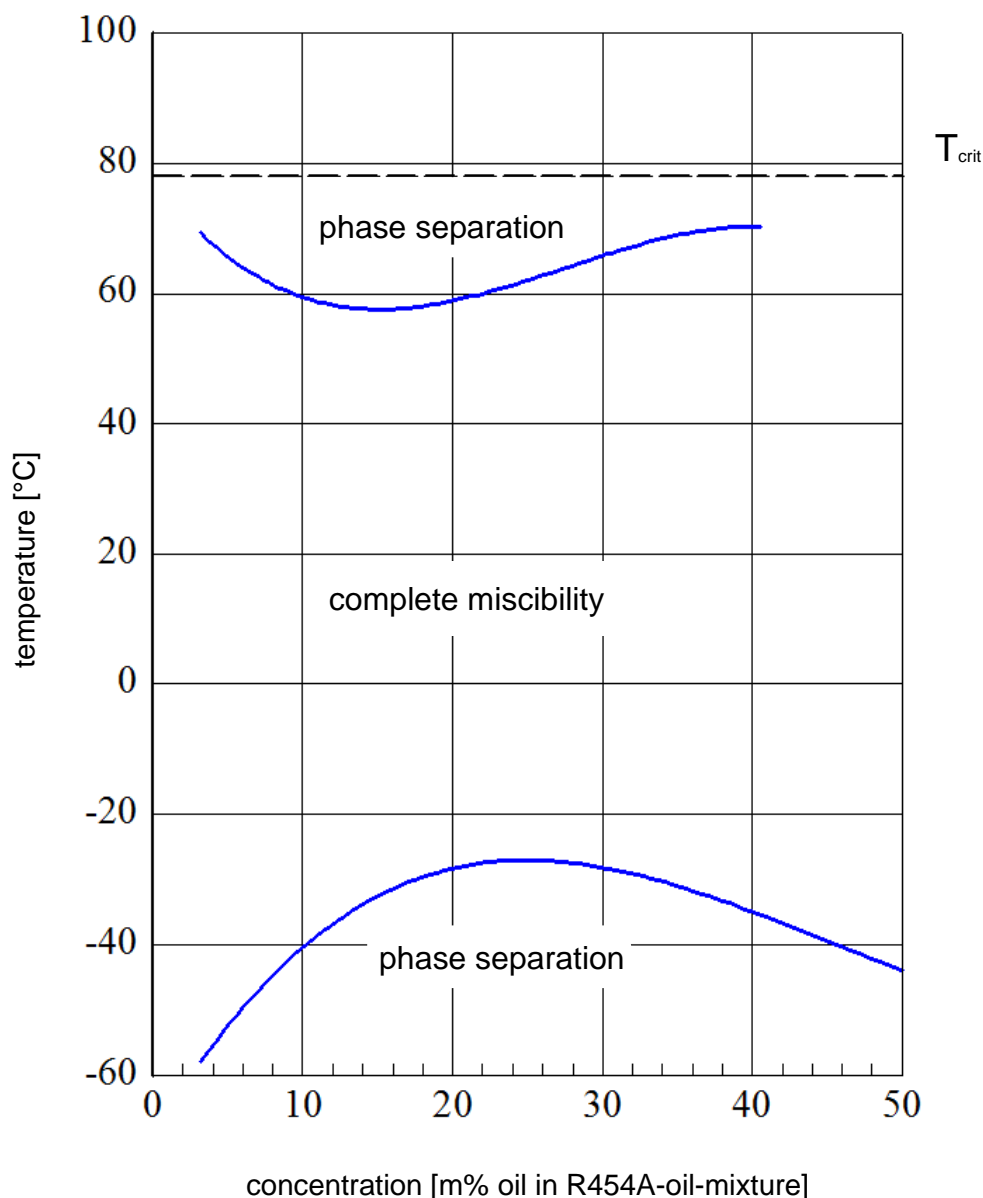


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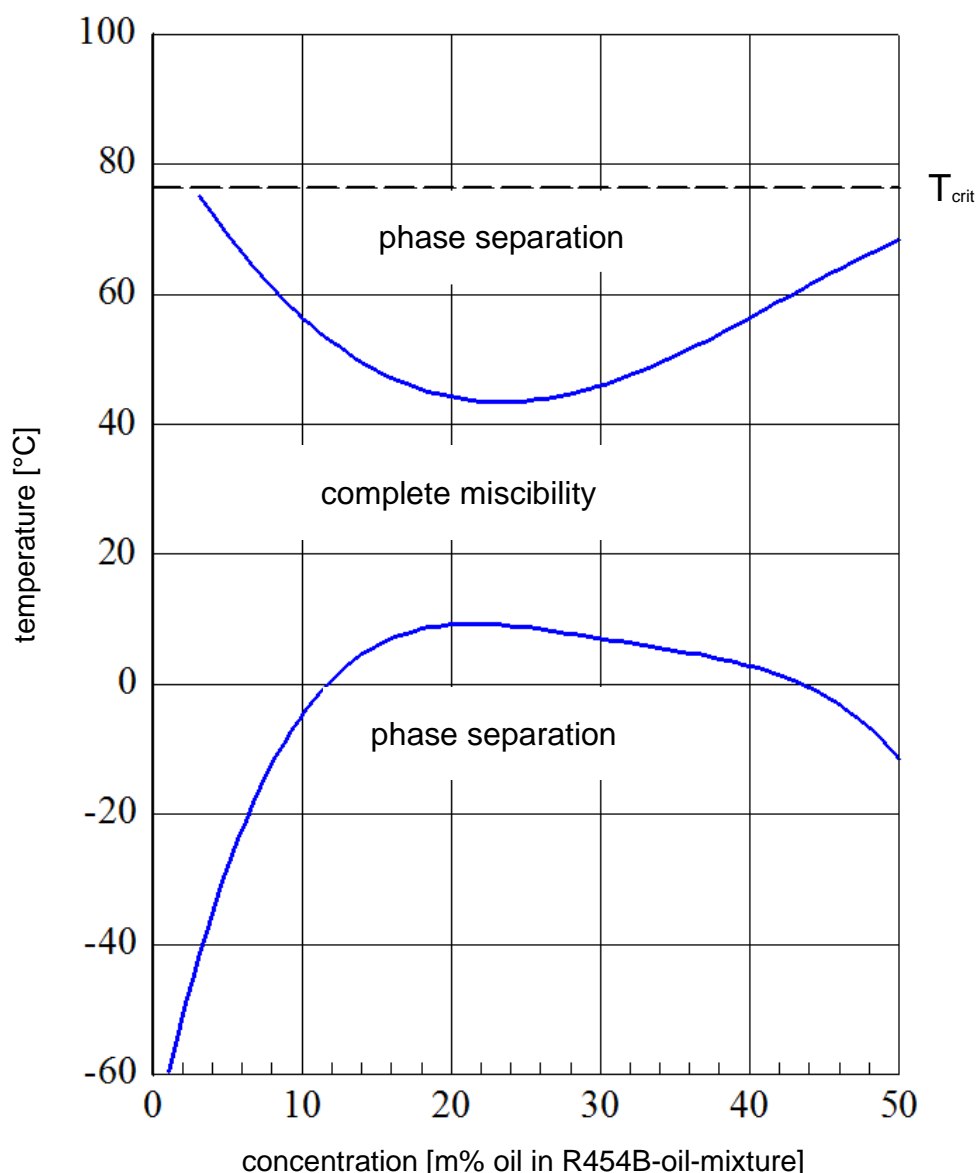
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R454A



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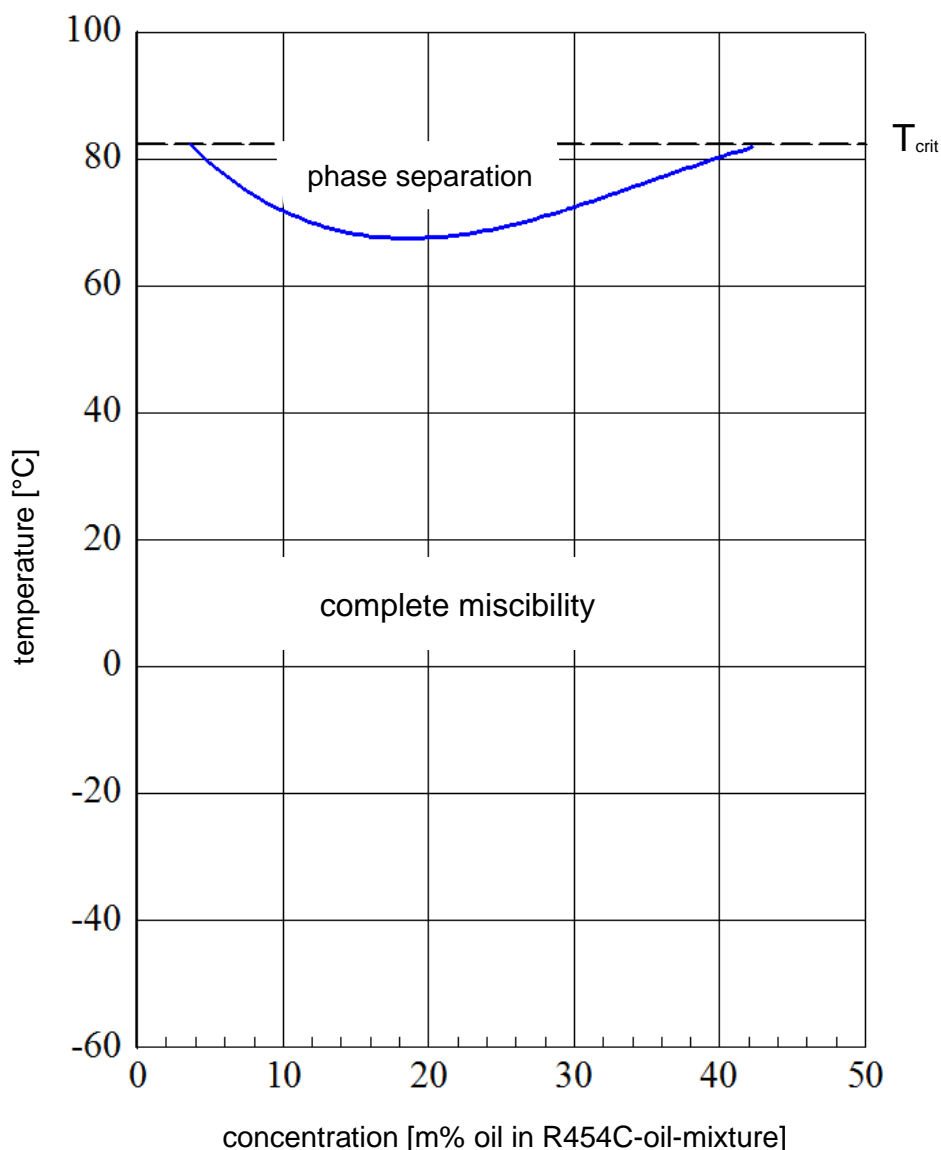
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R454B



RENISO TRITON SEZ 100

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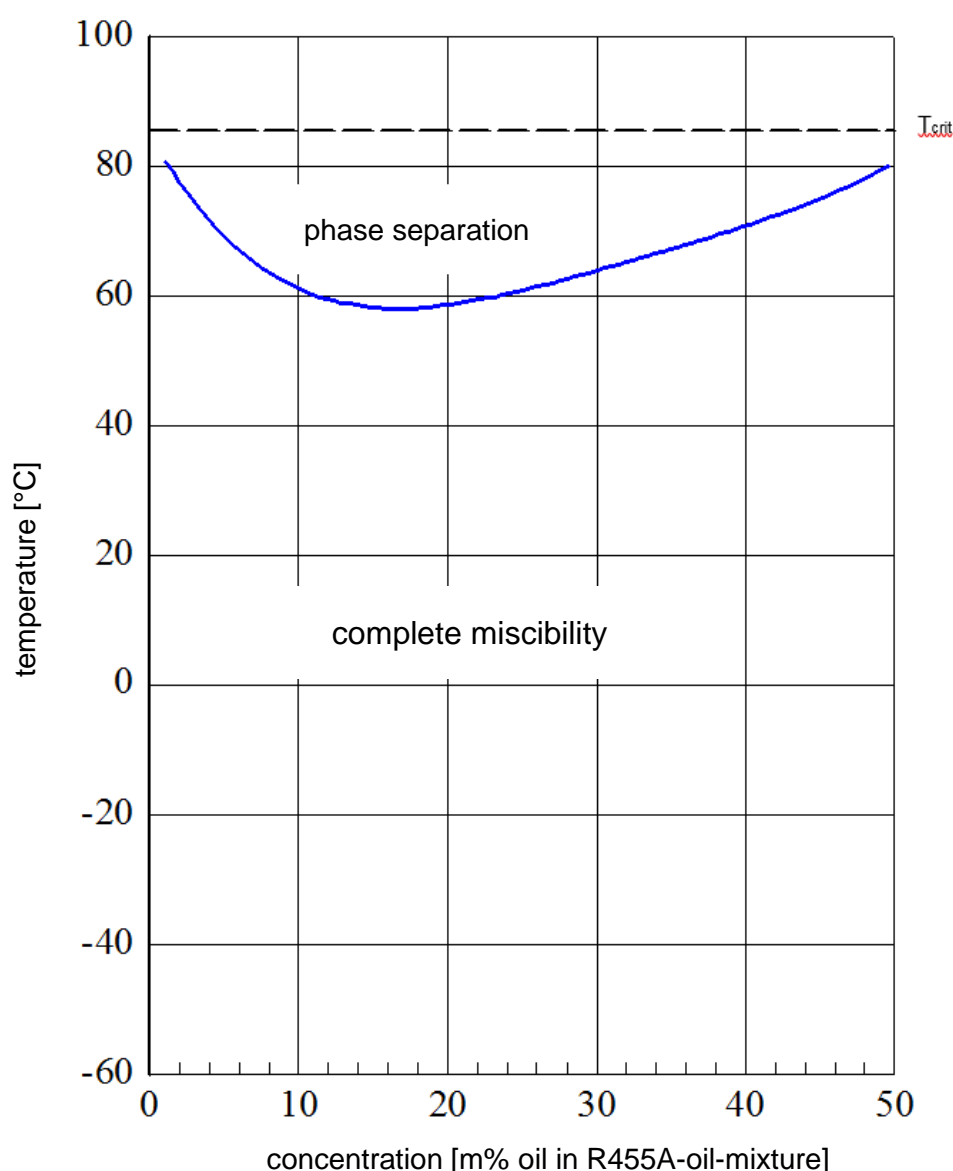
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R454C



RENISO TRITON SEZ 100

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R455A



RENISO TRITON SEZ 100

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R513A

