

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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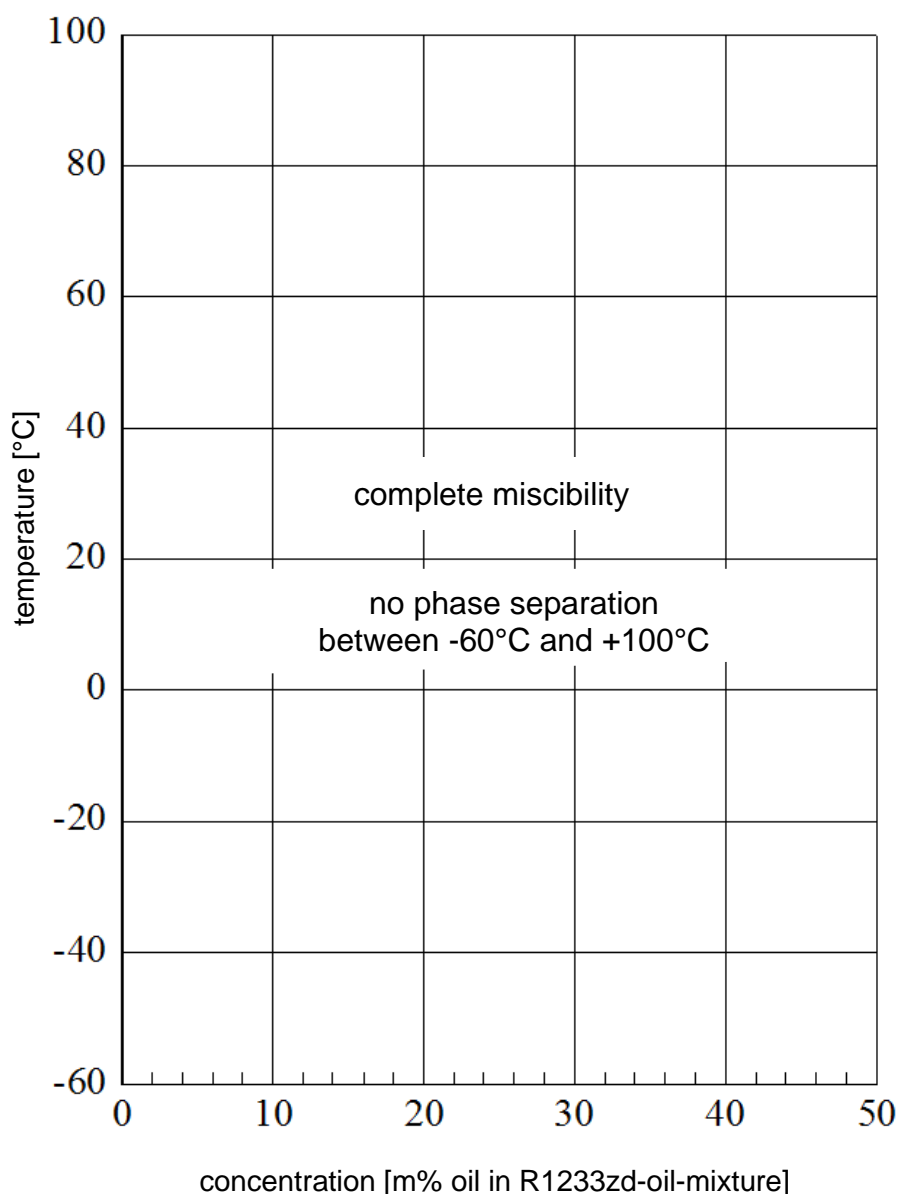
Typical data:

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

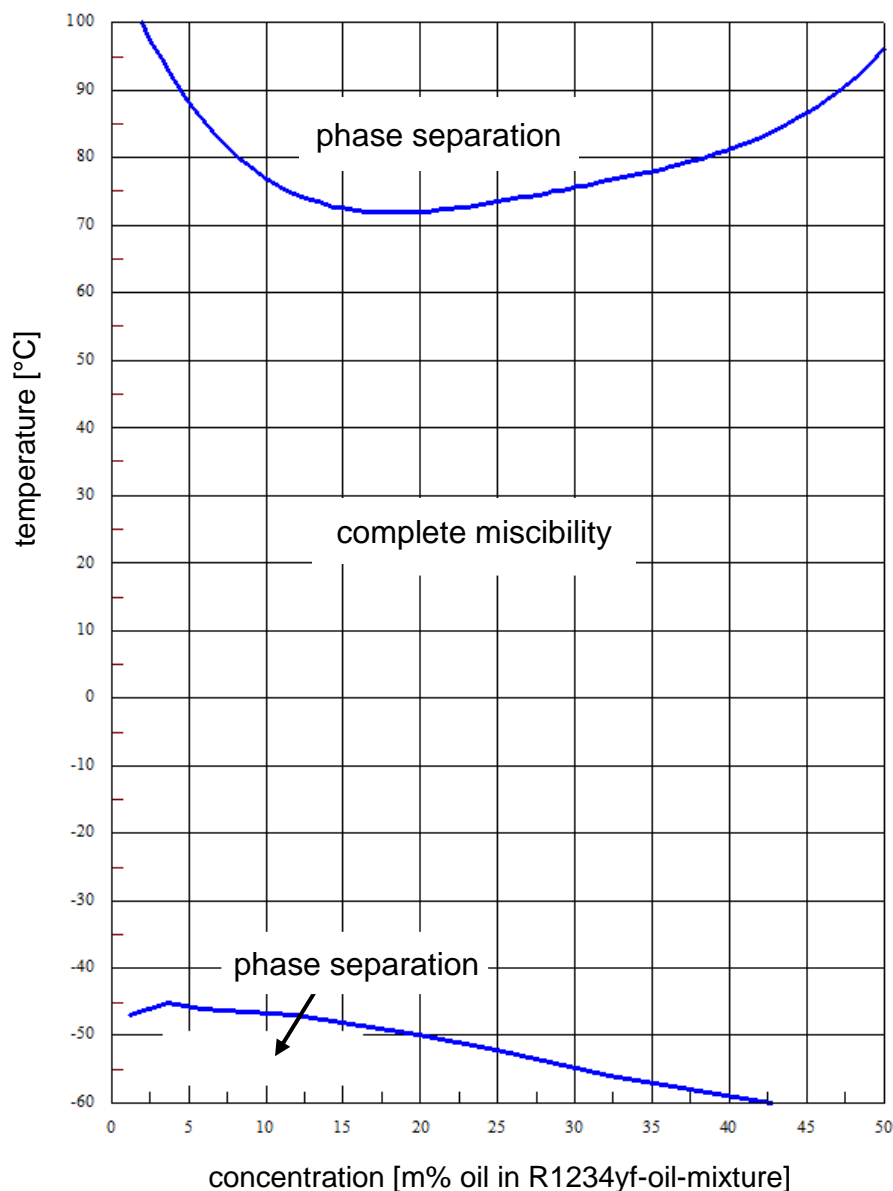


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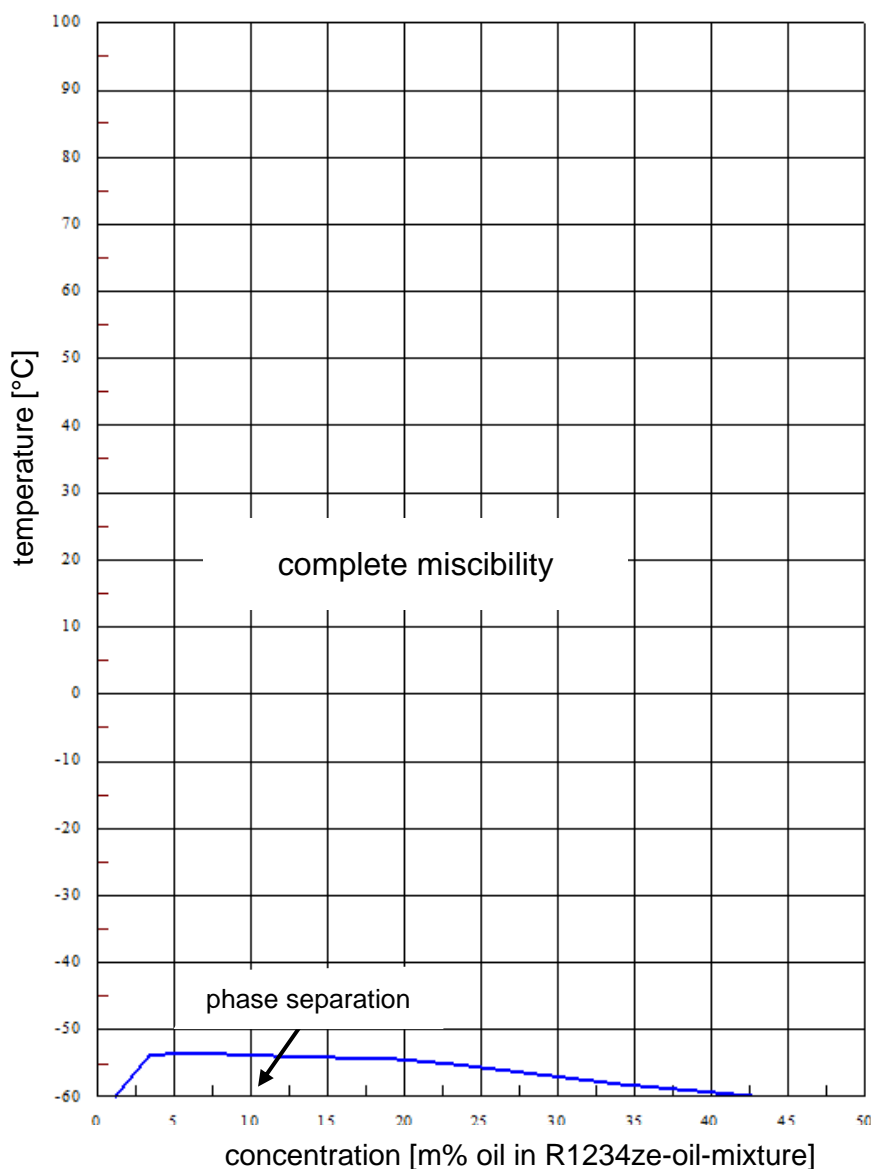
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R1234yf



RENISO TRITON SEZ 100

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

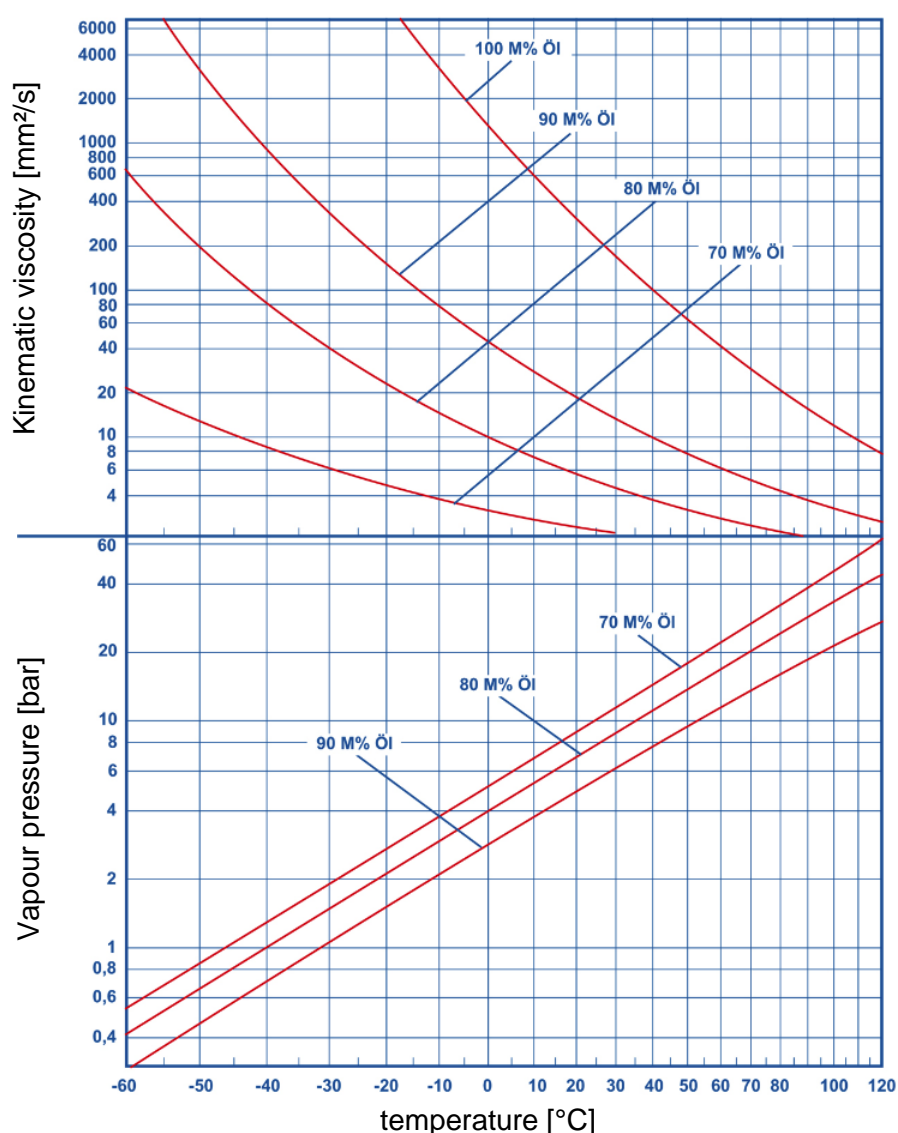
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R1234ze



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

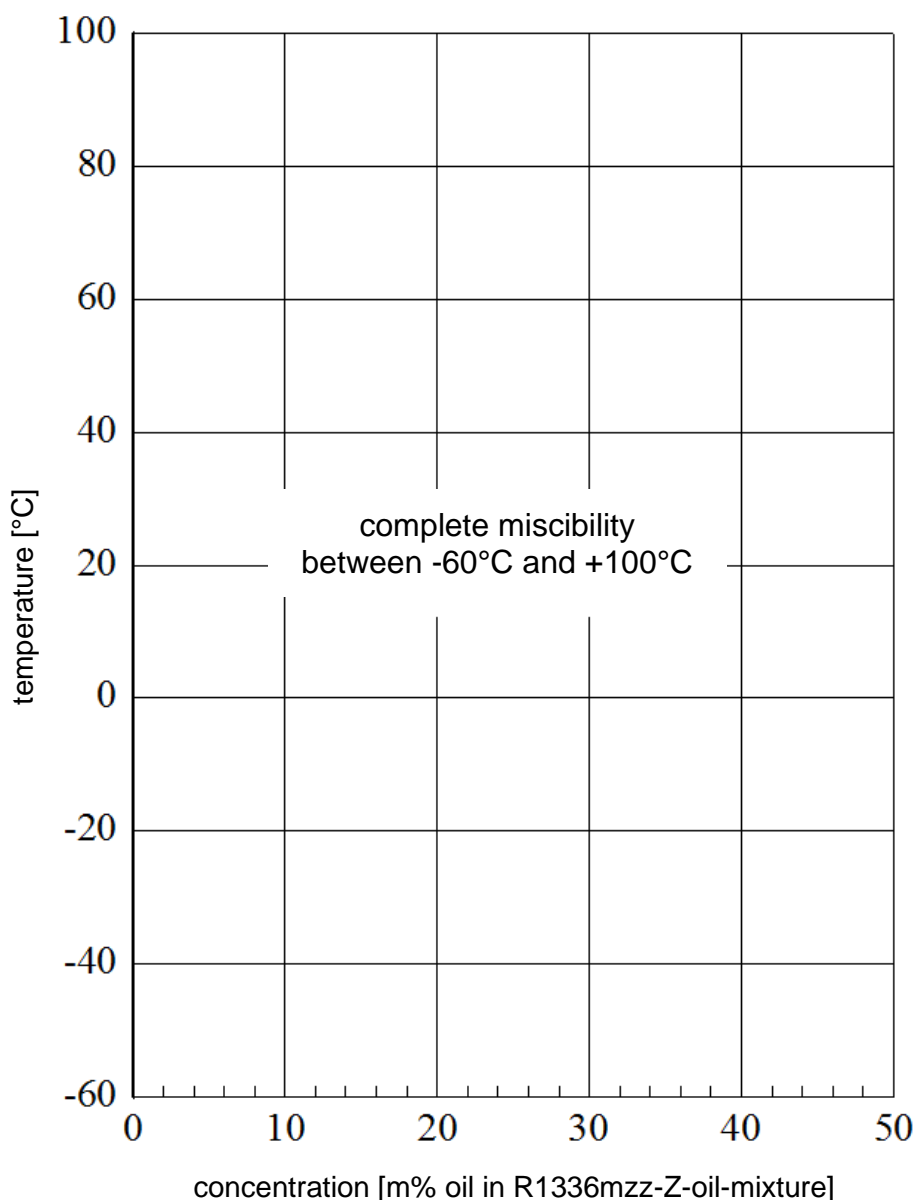


All % figures represent m% oil in the refrigerant-oil mixture.

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 R1336mzz-Z

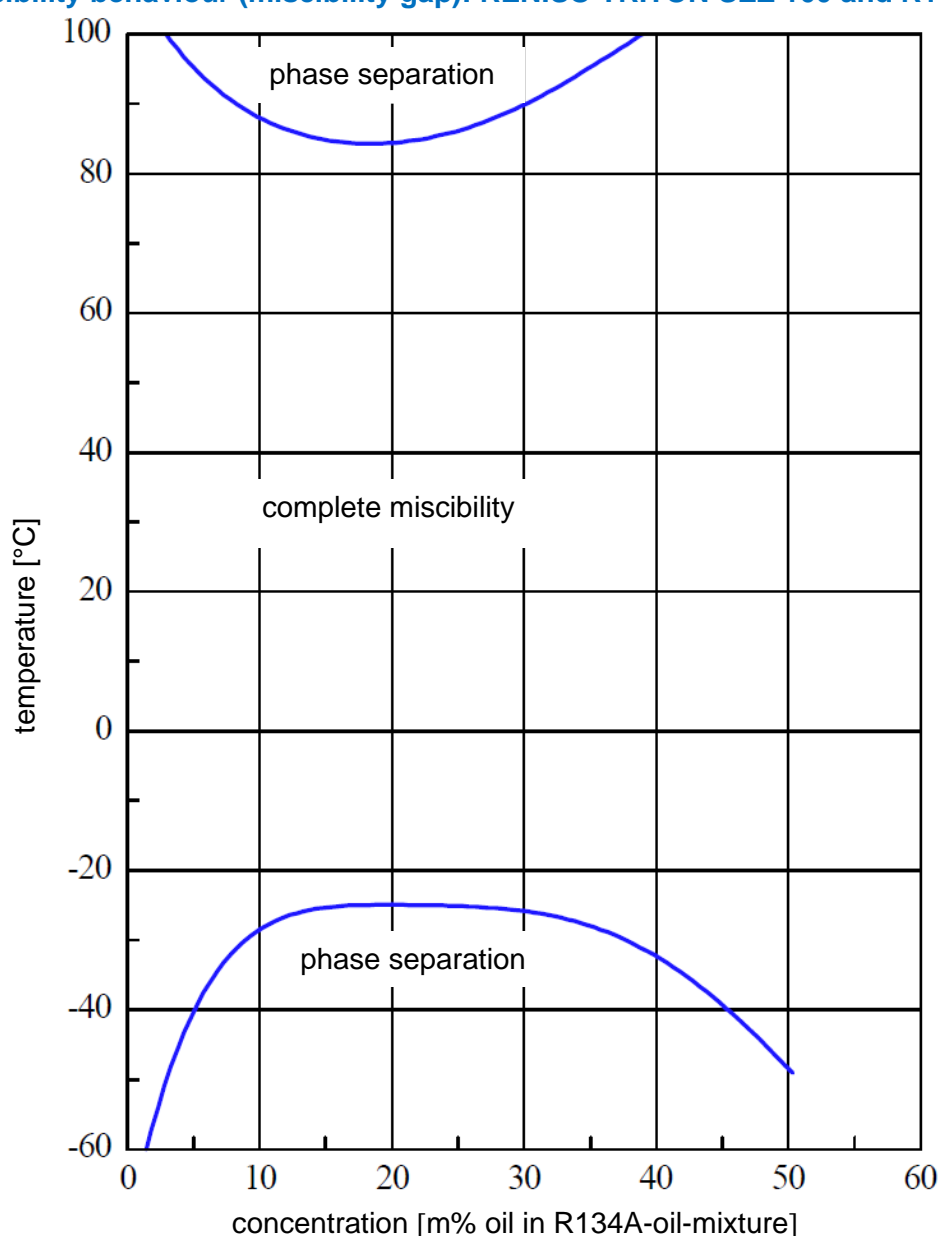


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RENISO TRITON SEZ 100

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

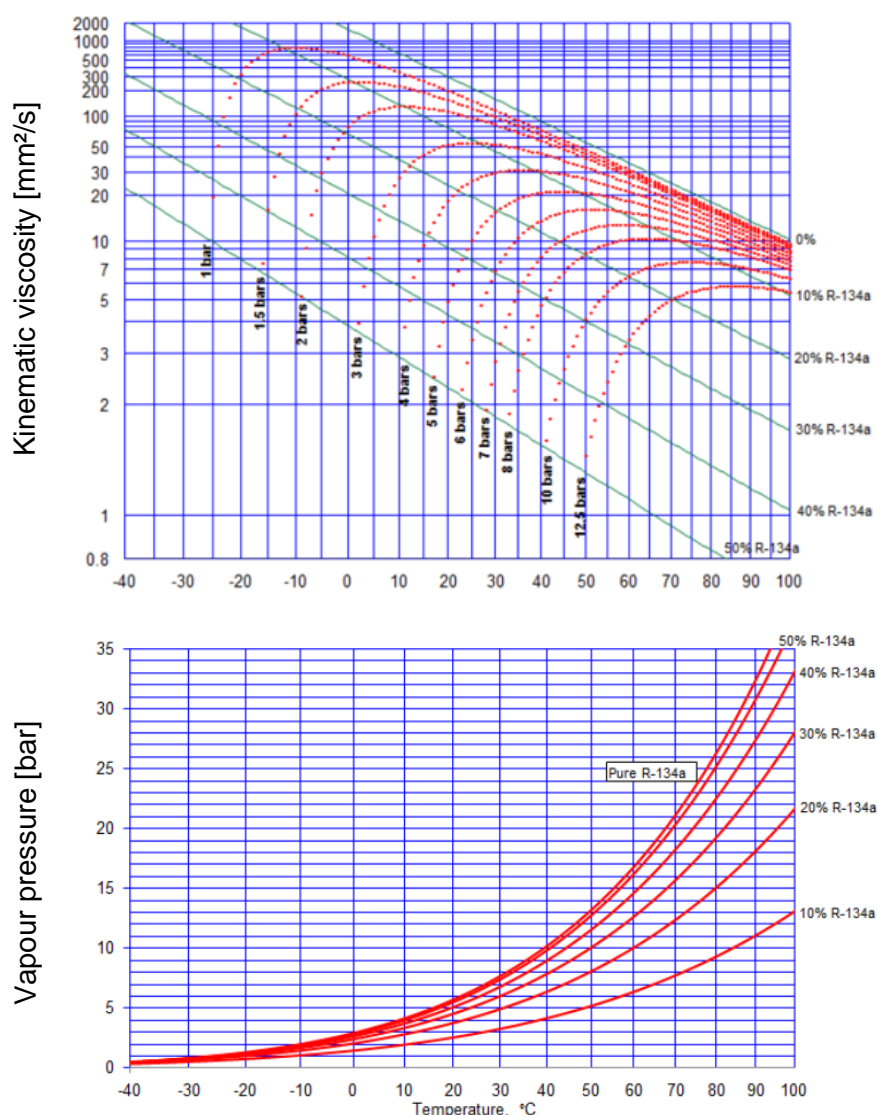
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R134A



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



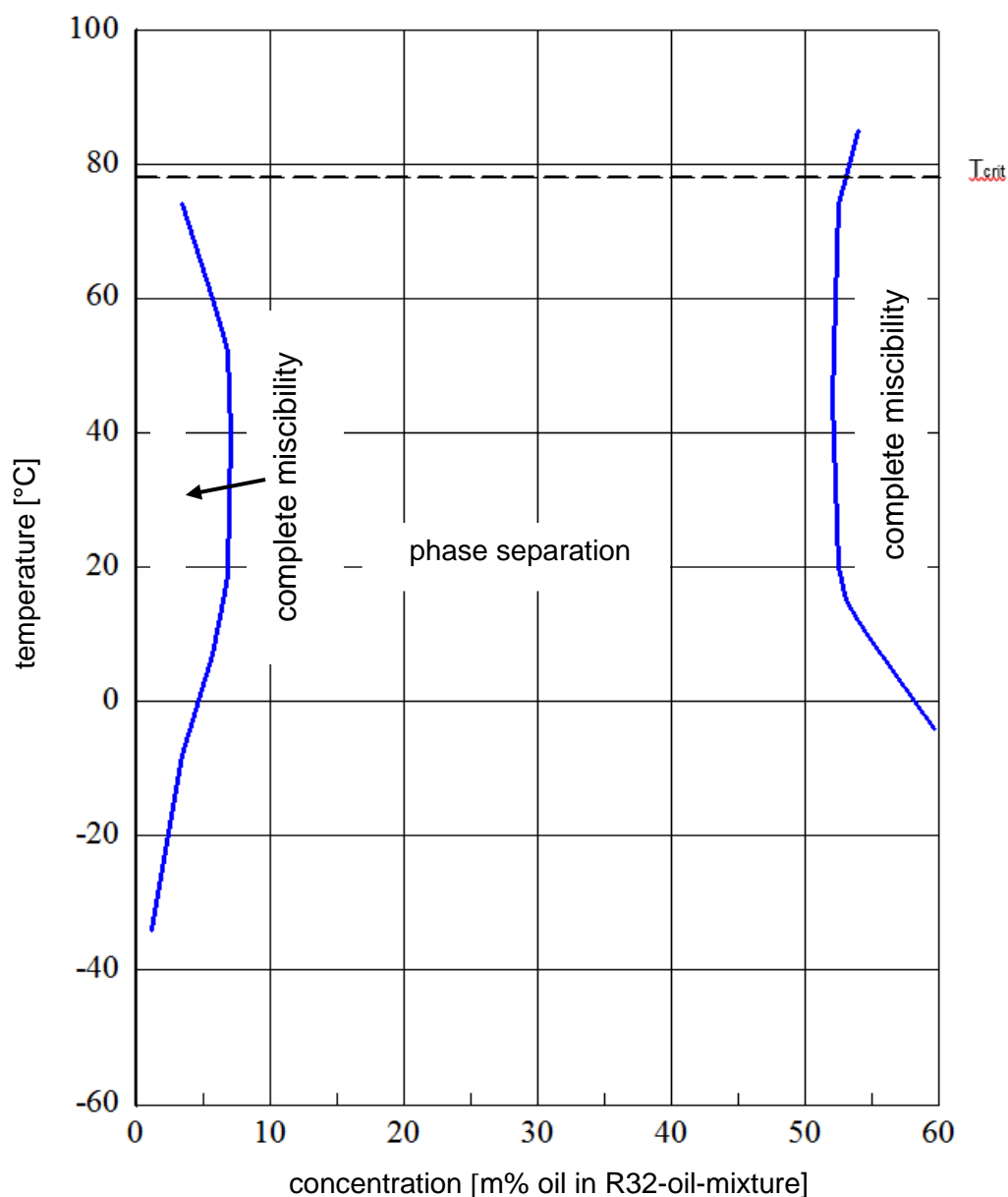
All % figures represent m% refrigerant in the refrigerant-oil mixture.

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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 R32

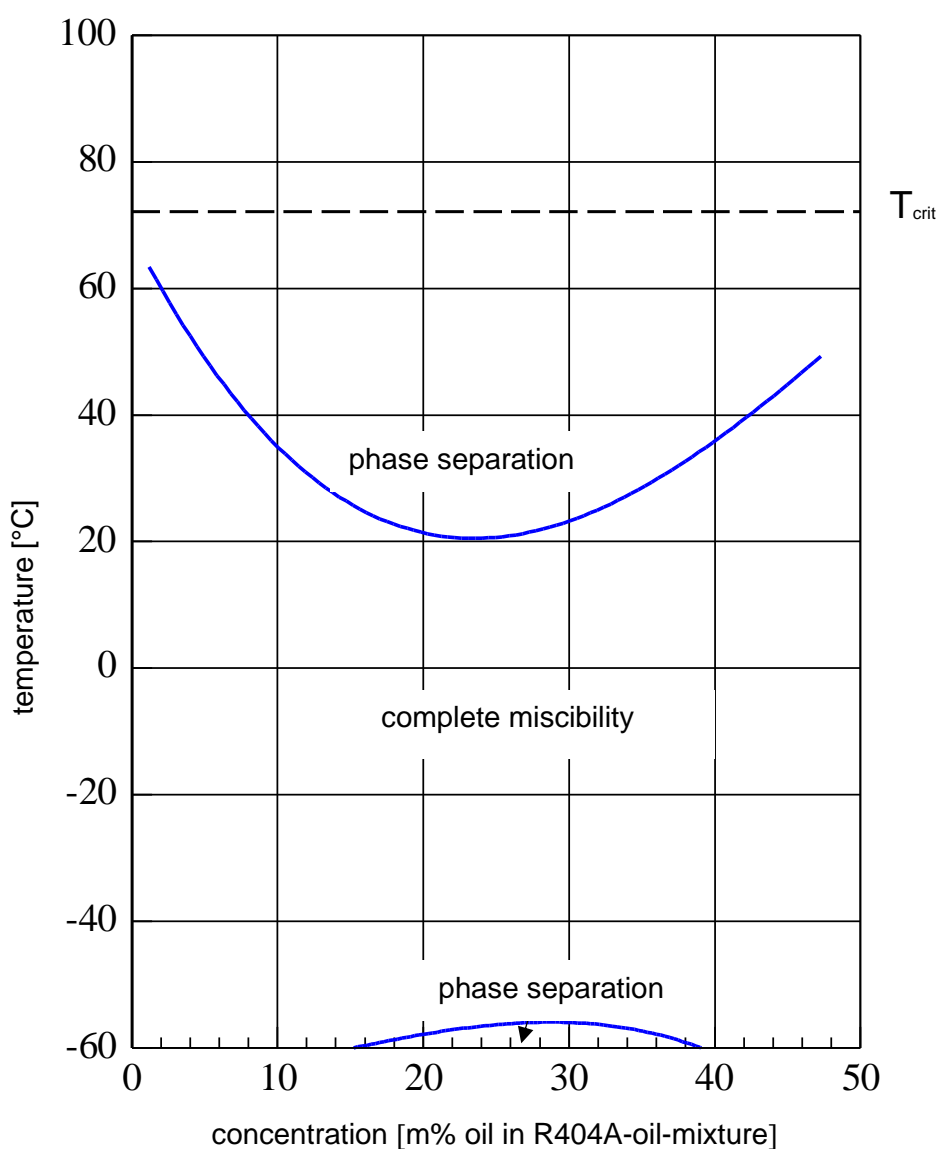


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RENISO TRITON SEZ 100

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

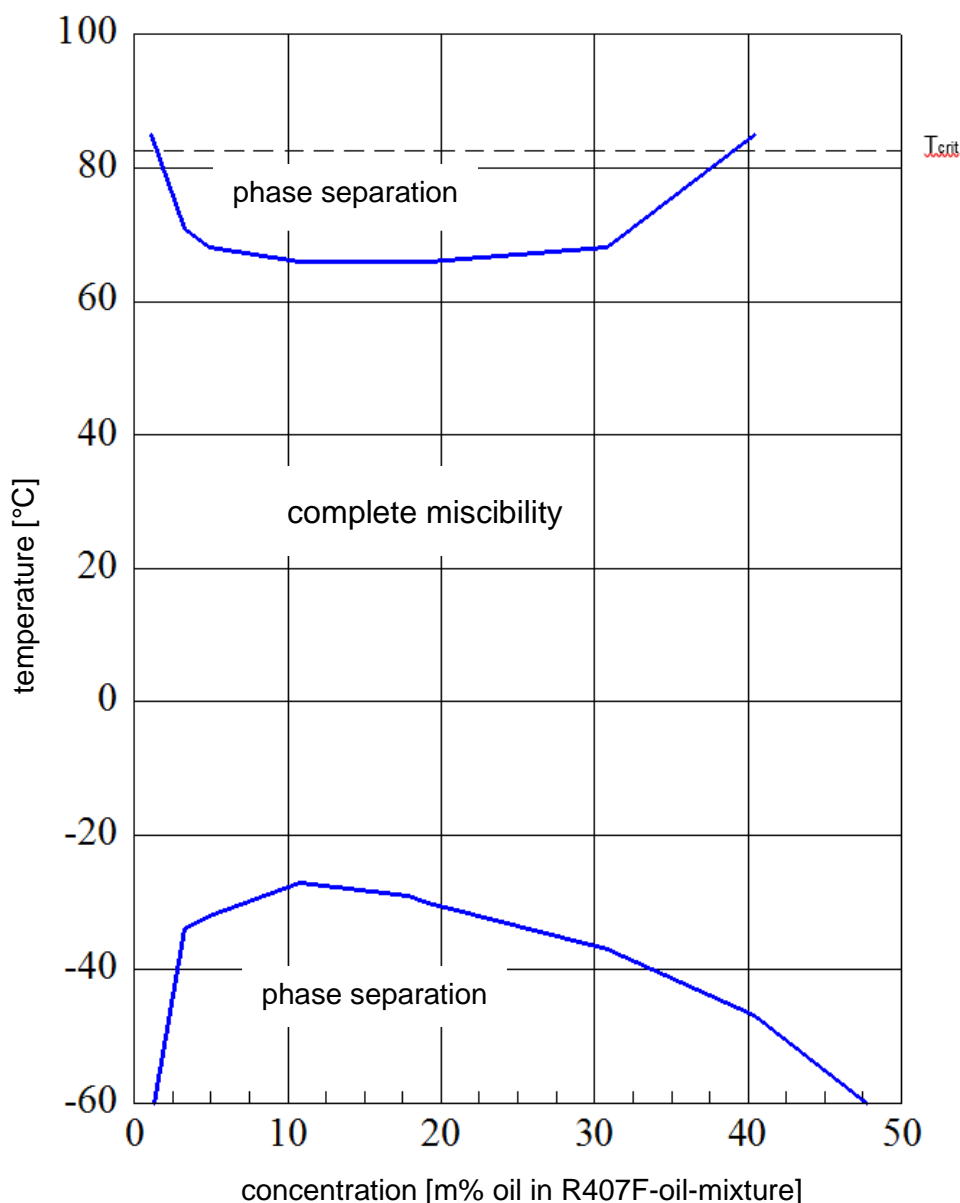
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R404A



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 R407F

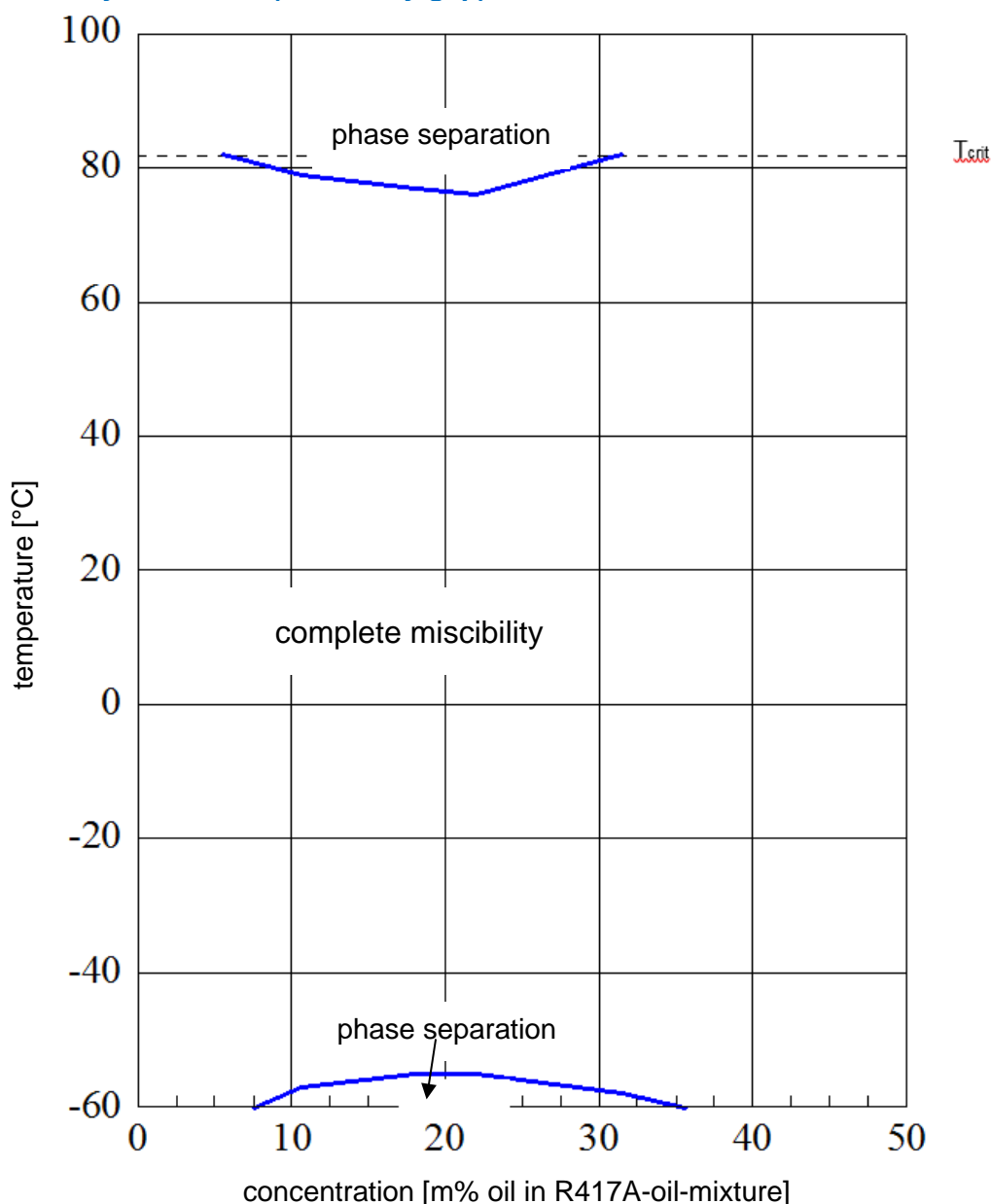


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RENISO TRITON SEZ 100

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 R417A

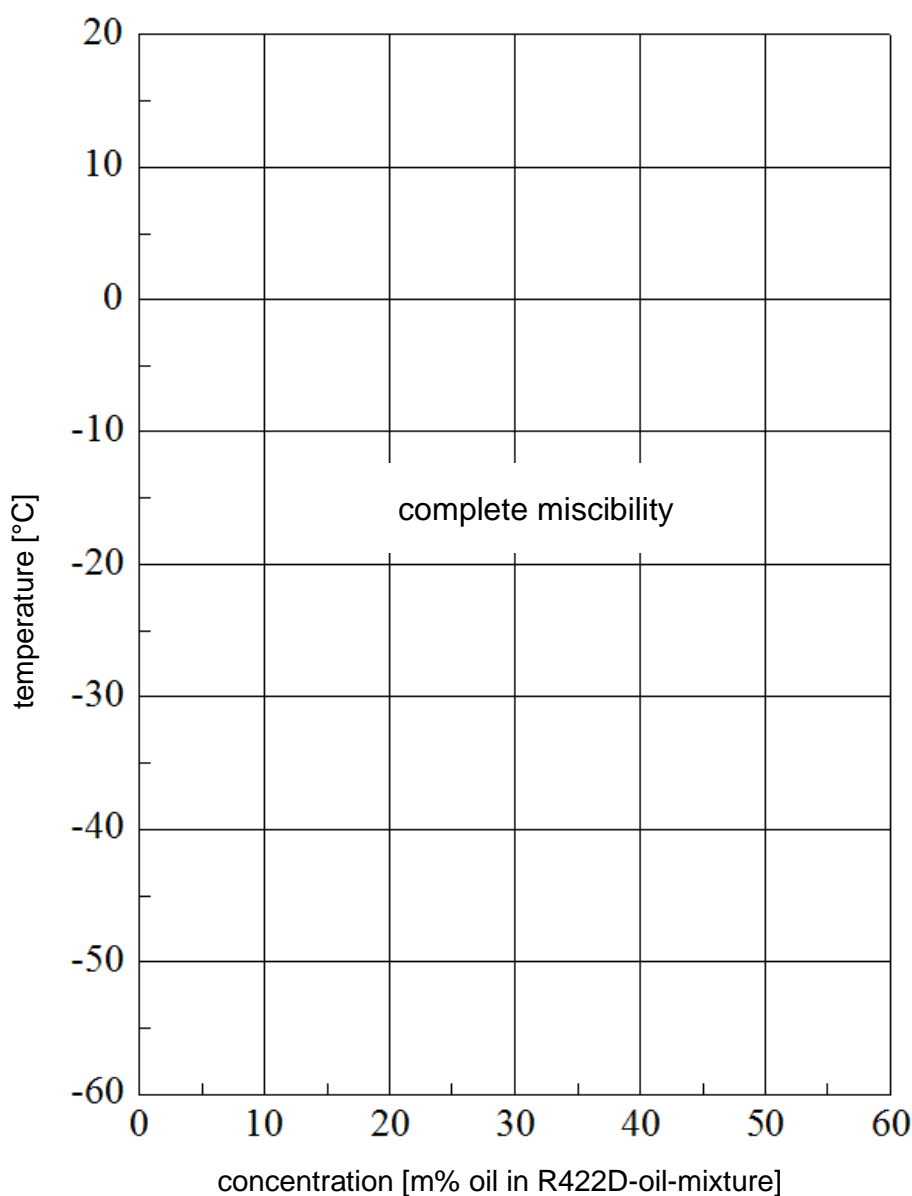


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RENISO TRITON SEZ 100

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 R422D

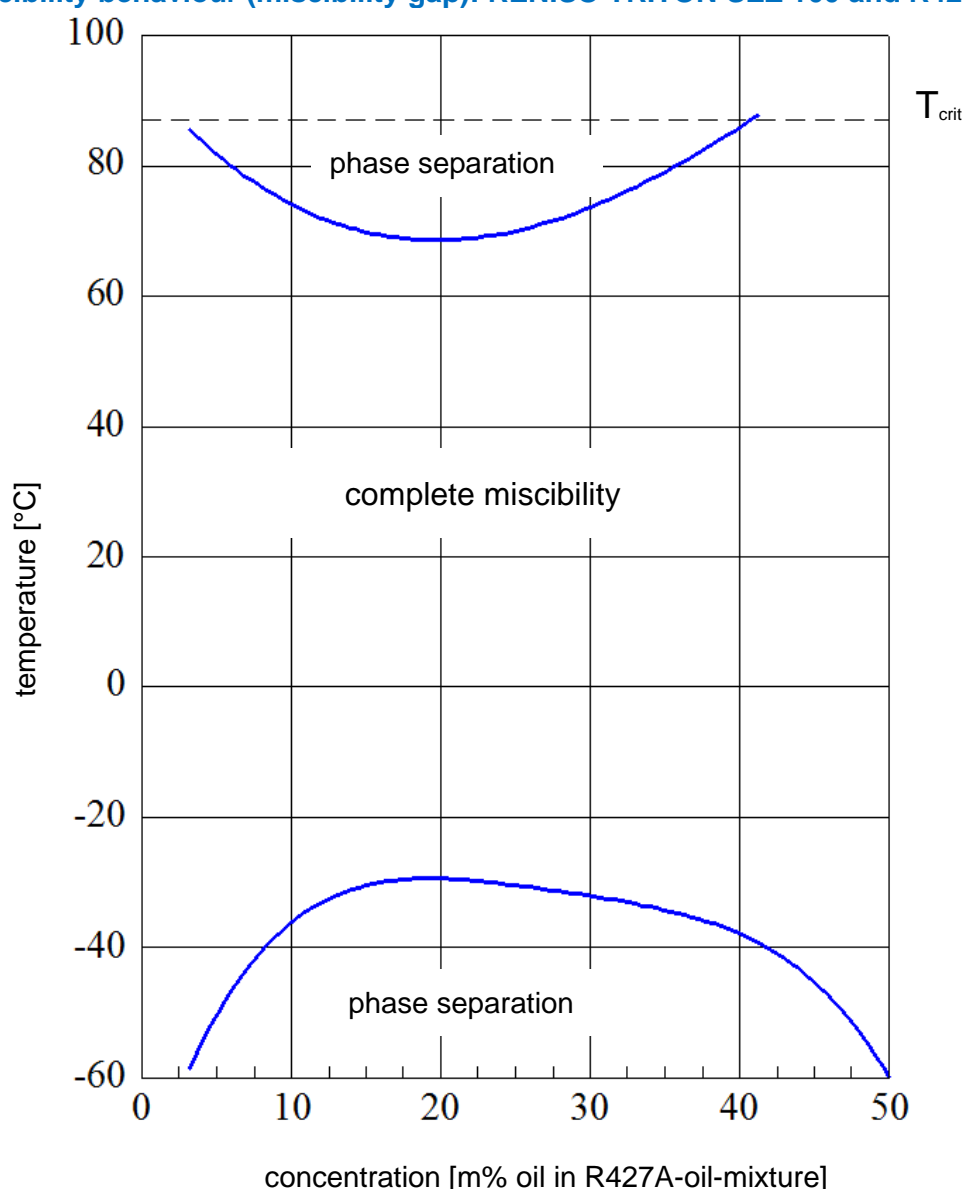


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RENISO TRITON SEZ 100

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

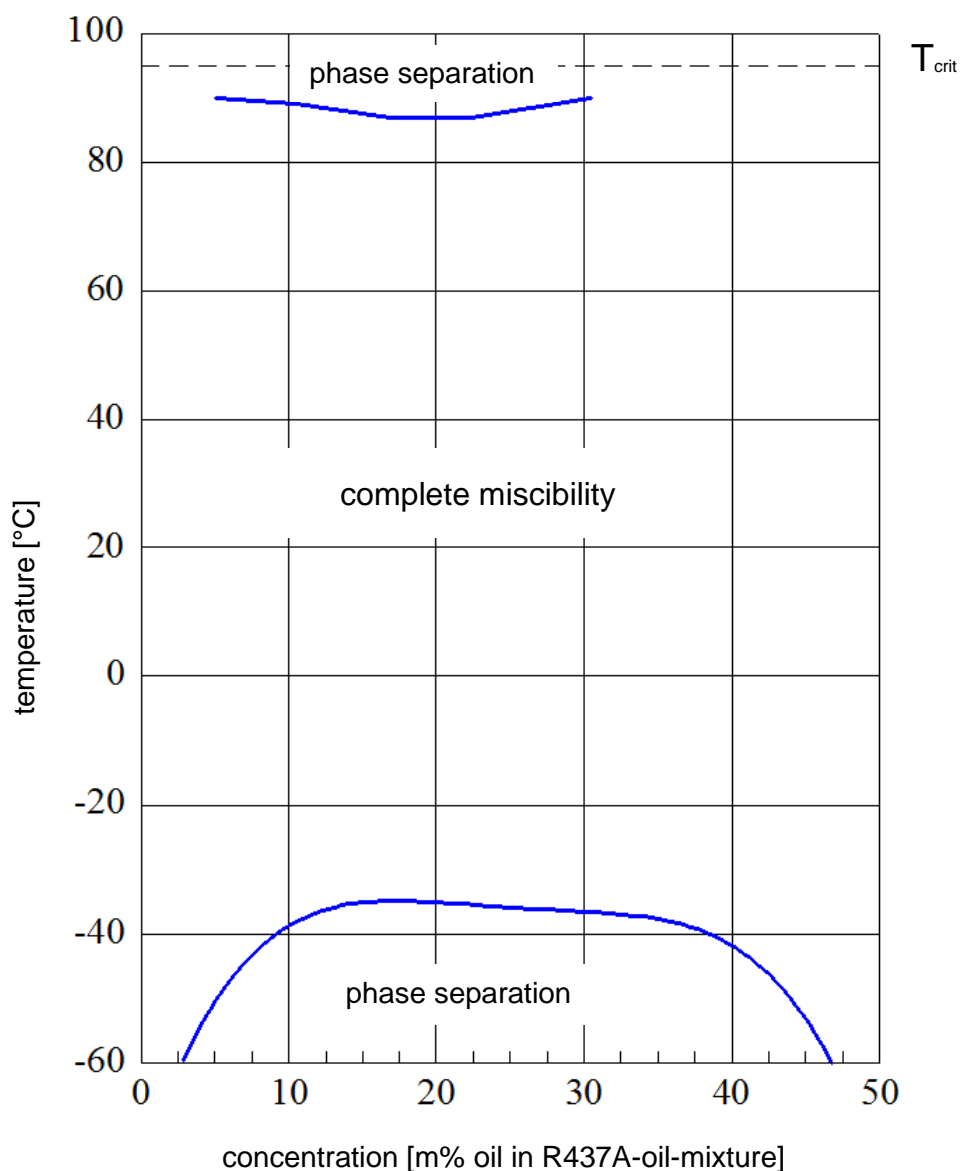
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R427A



RENISO TRITON SEZ 100

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

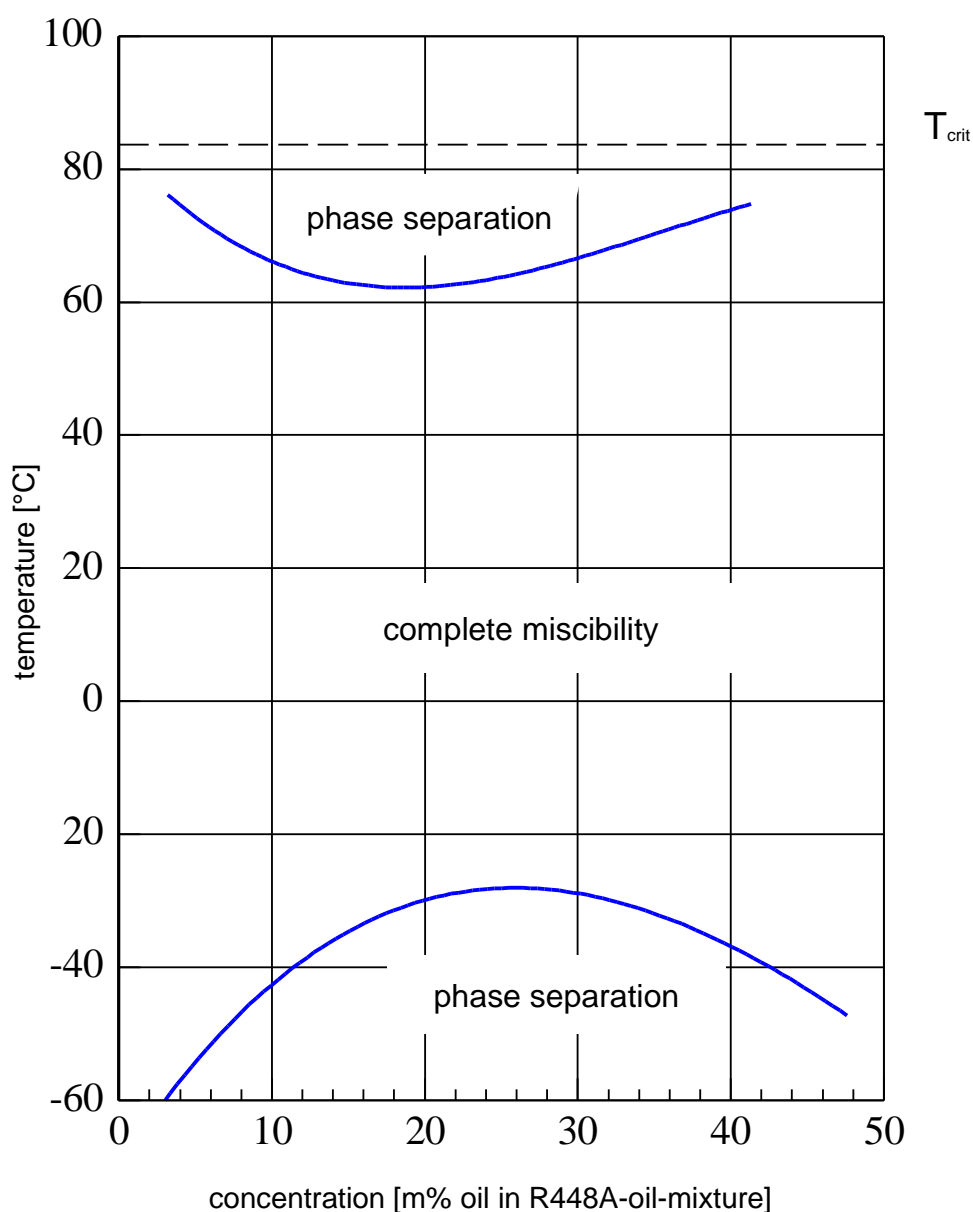
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R437A



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 R448A

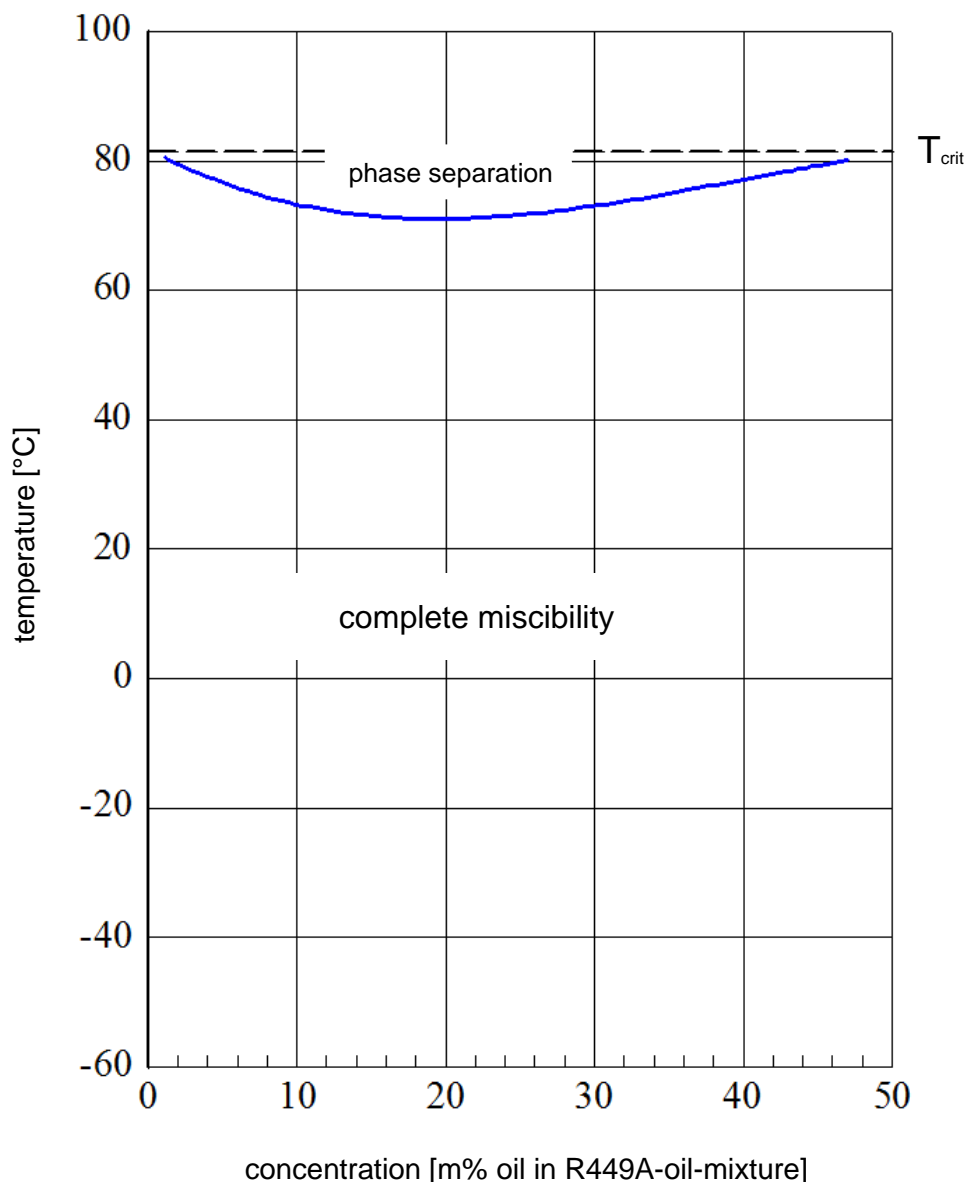


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RENISO TRITON SEZ 100

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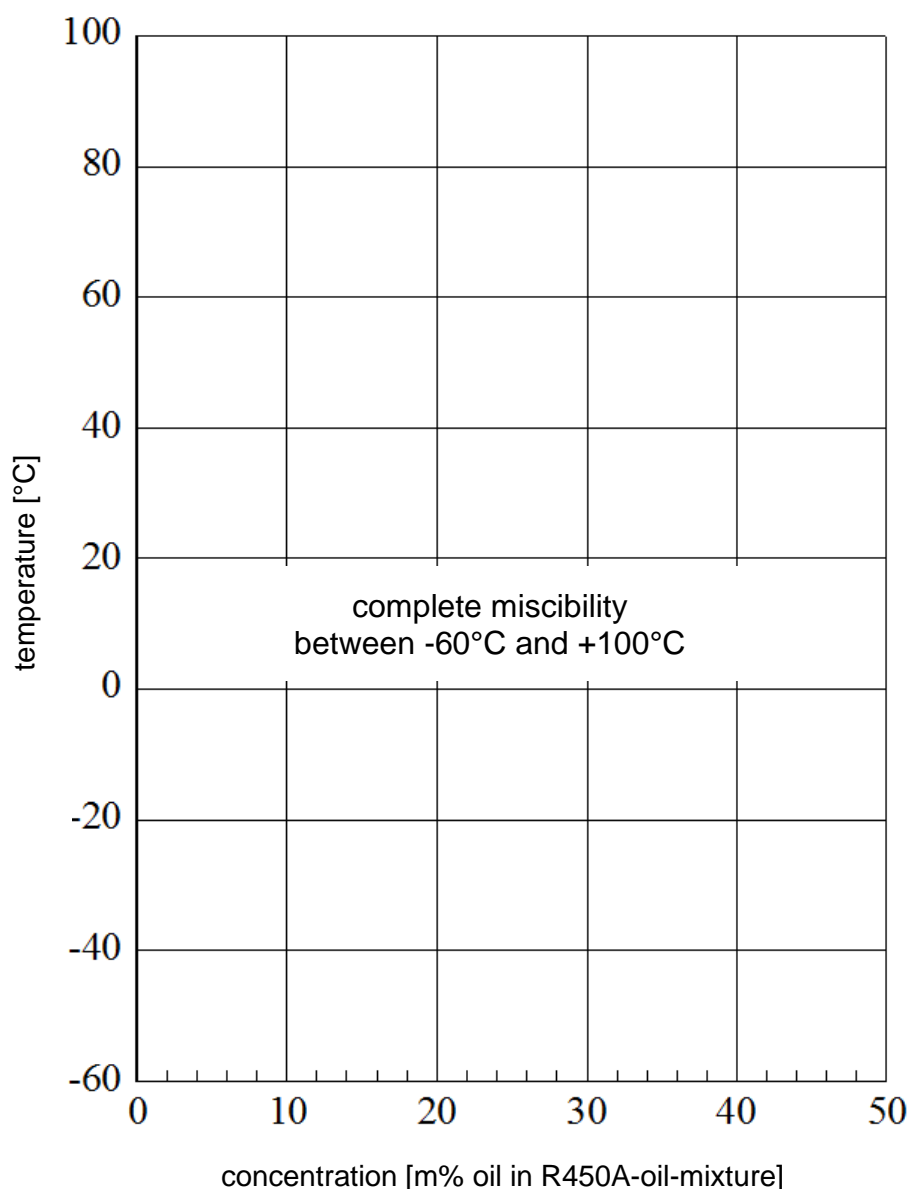
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R449A



RENISO TRITON SEZ 100

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

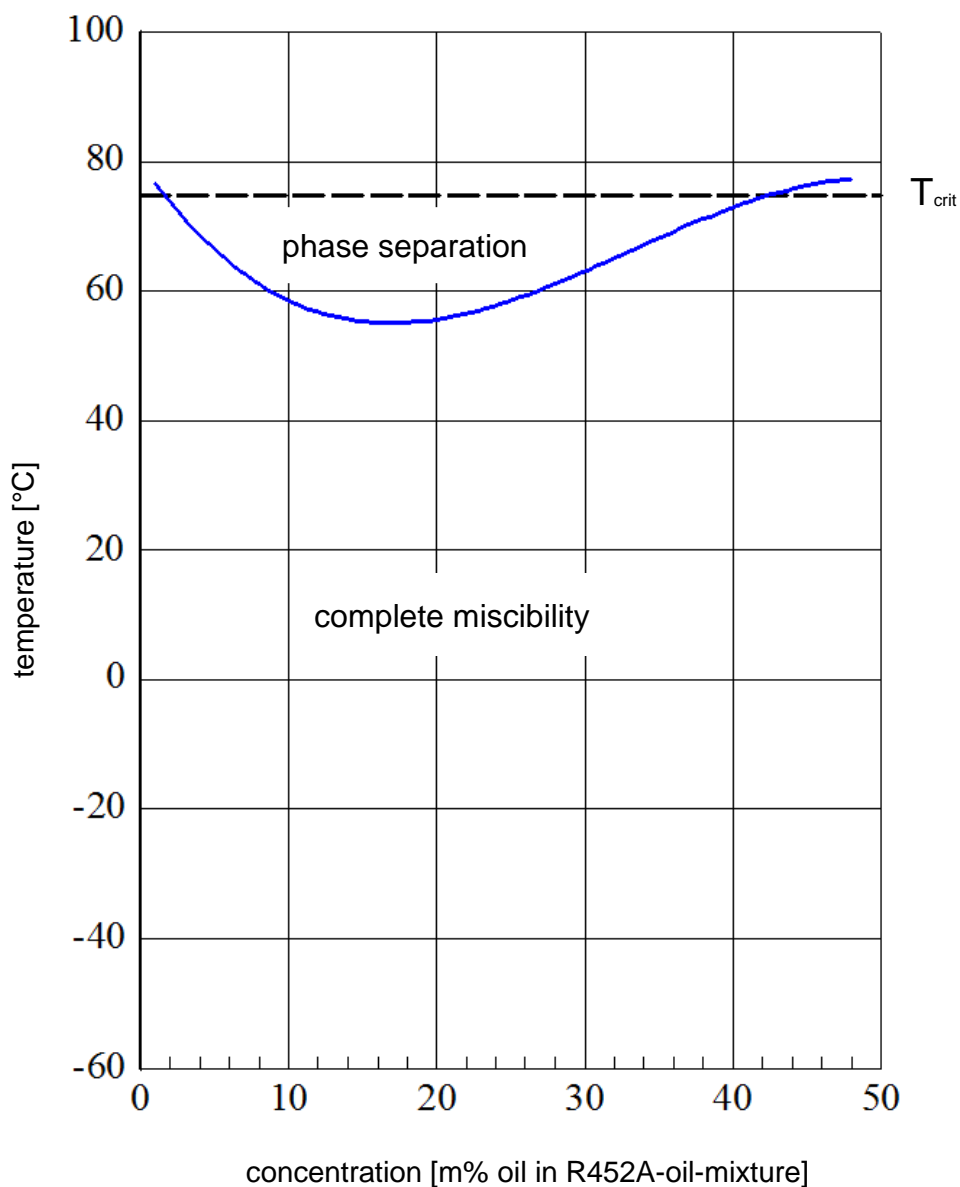
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R450A



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

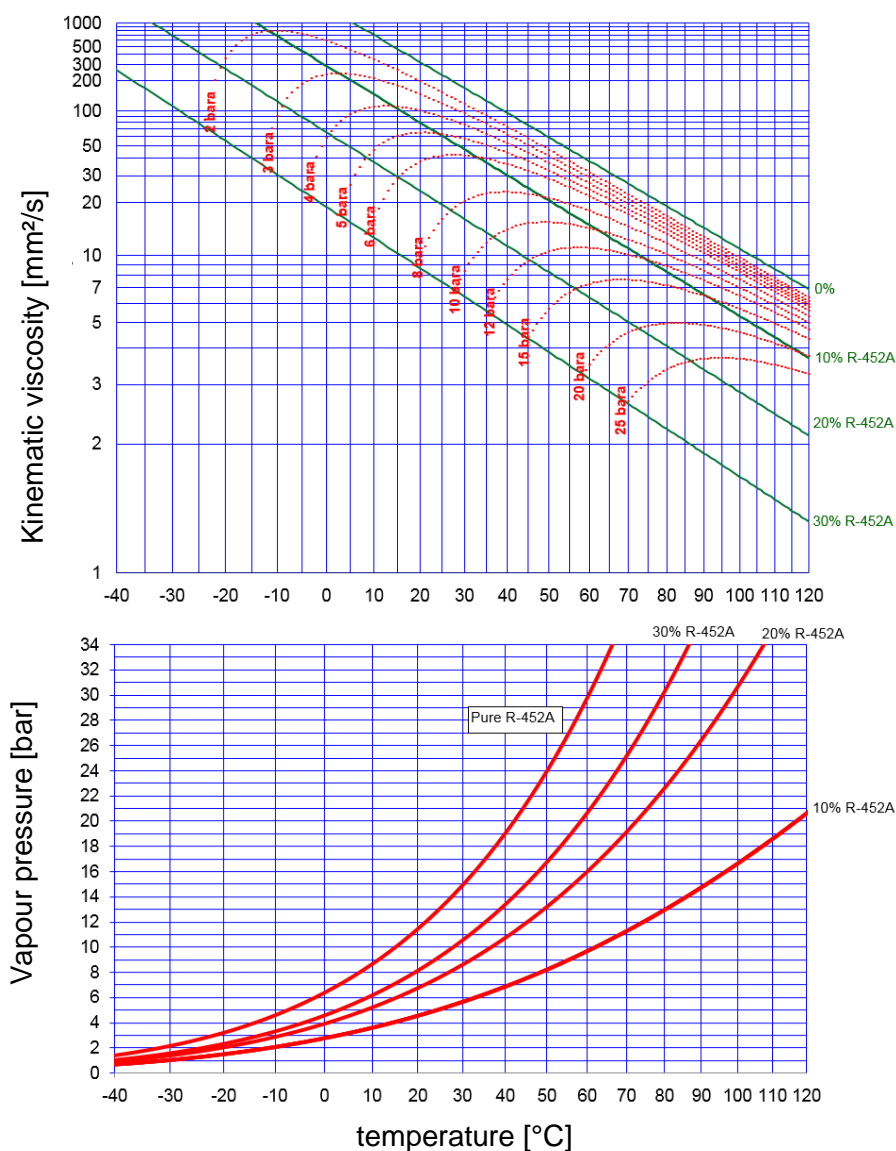
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R452A



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

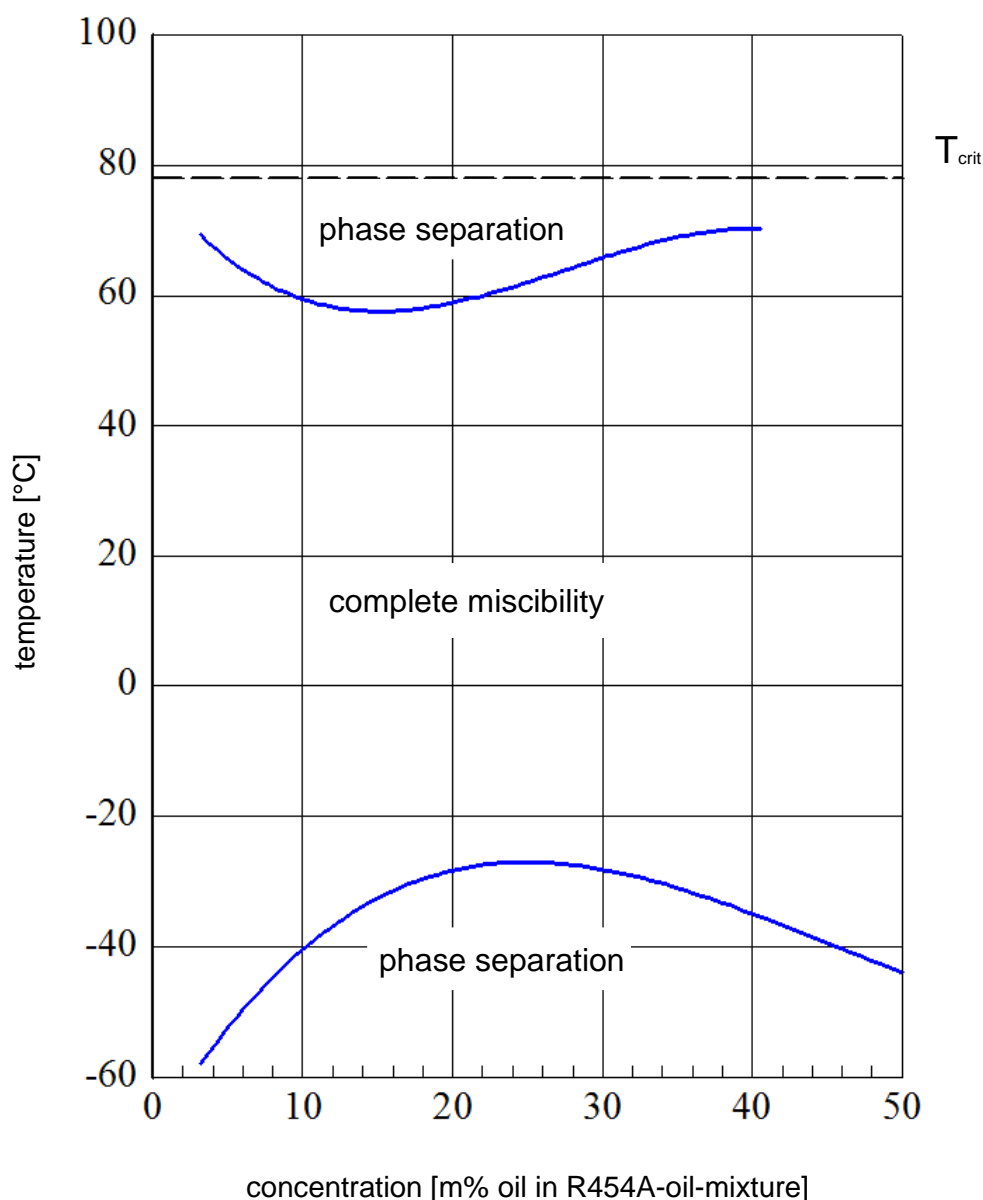


All % figures represent m% refrigerant in the refrigerant-oil-mixture.

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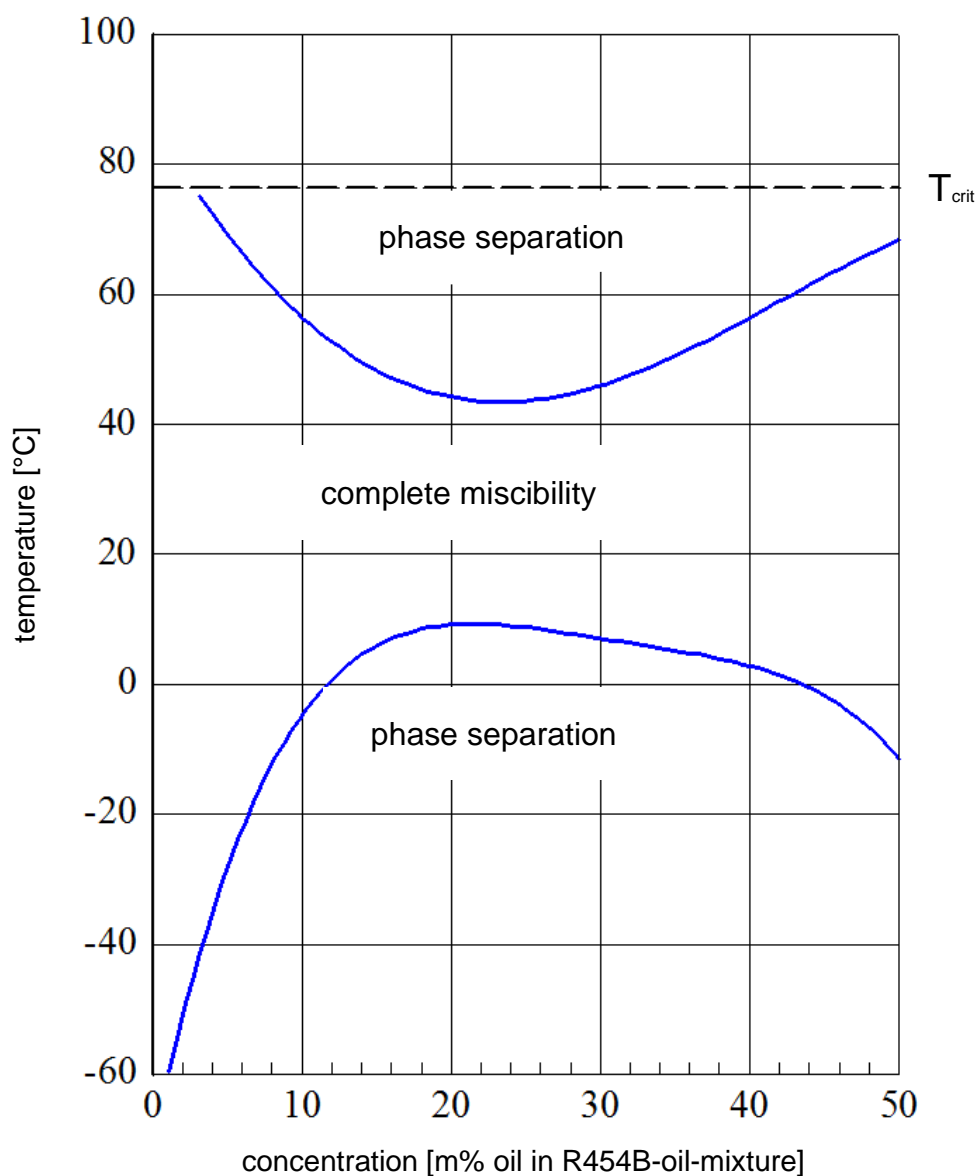
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R454A



RENISO TRITON SEZ 100

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

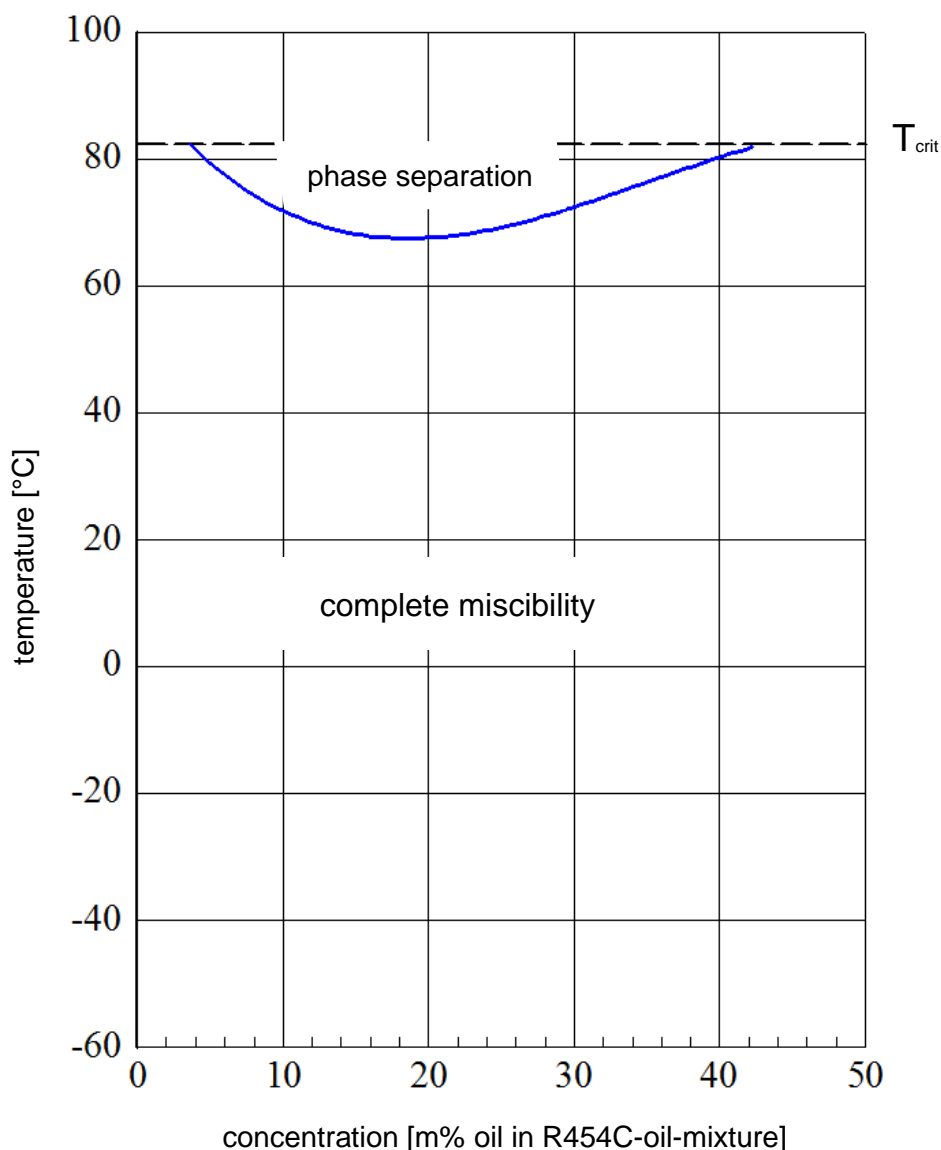
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R454B



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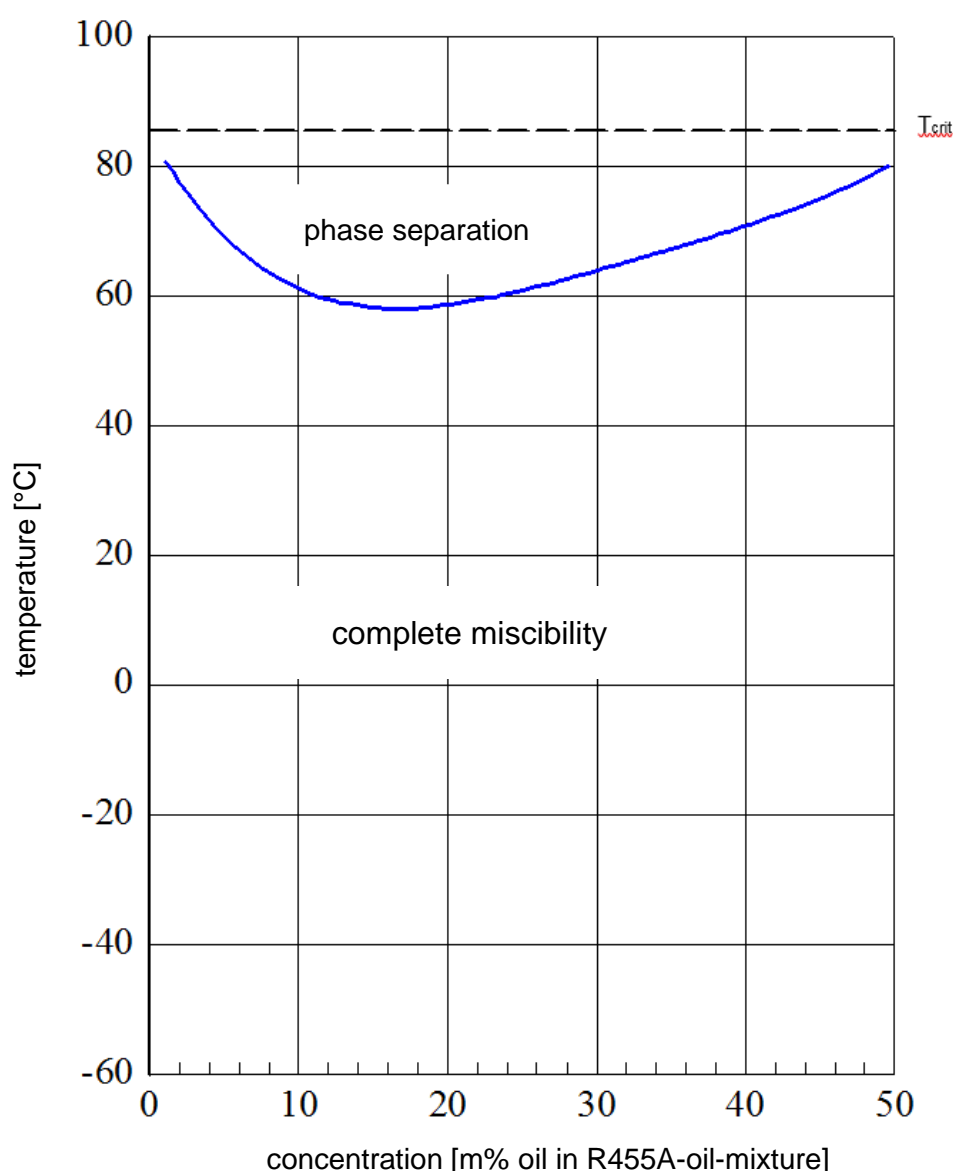
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R454C



RENISO TRITON SEZ 100

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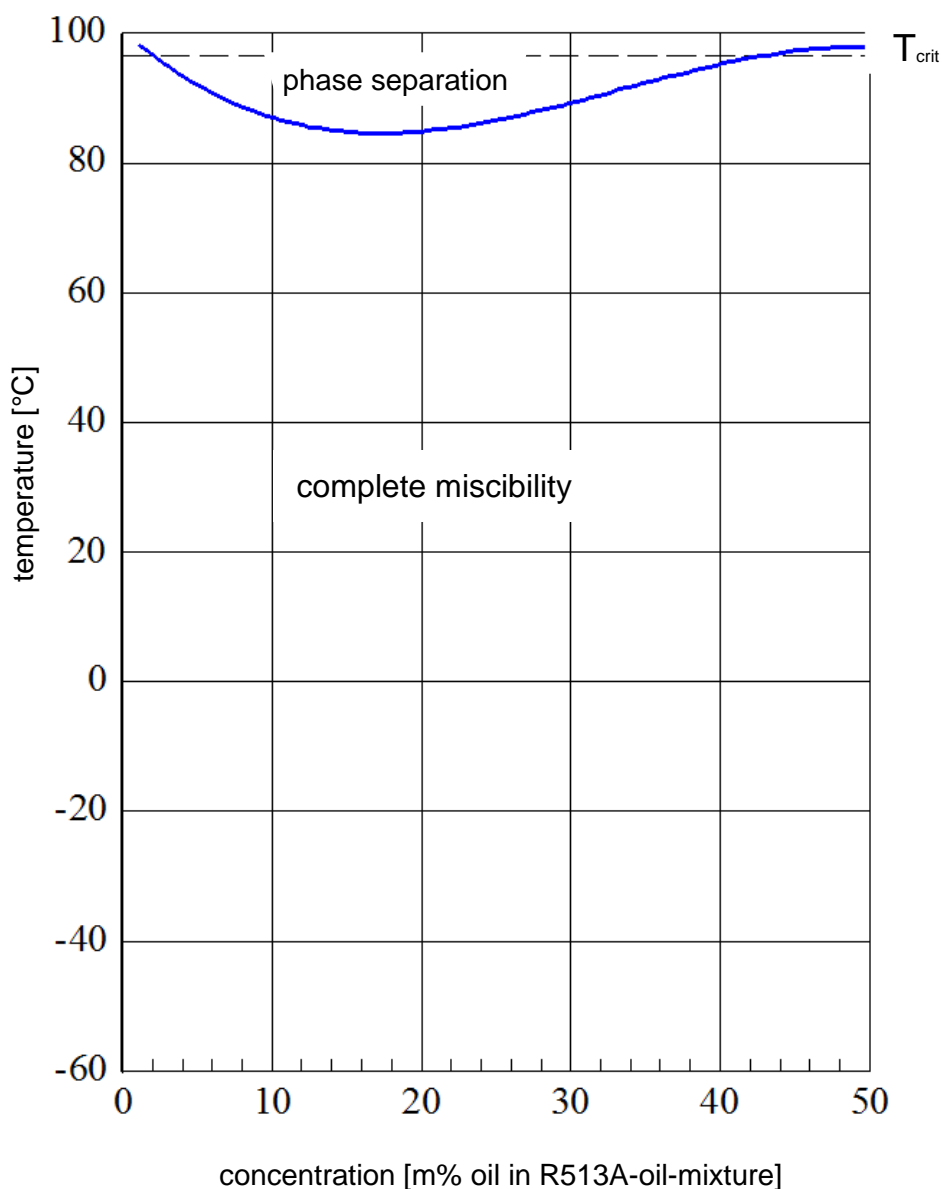
Miscibility behaviour (miscibility gap): RENISO TRITON SEZ 100 and R455A



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



Product Information

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Note

The information contained in this product information is based on the experience and know-how of FUCHS LUBRICANTS GERMANY GmbH in the development and manufacturing of lubricants and represents the current state-of-the-art. The performance of our products can be influenced by a series of factors, especially the specific use, the method of application, the operational environment, component pre-treatment, possible external contamination, etc. For this reason, universally-valid statements about the function of our products are not possible.

Our products must not be used in aircraft or spacecraft. Our products may be used in the manufacture of components for aircraft or spacecraft if they are removed without residue from the components prior to assembly into the aircraft or spacecraft.

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