

RENISO TRITON SE/SEZ

Synthetic refrigeration oils based on polyol esters (POE) for HFC/FC refrigerants

Description

The refrigeration oils of the RENISO TRITON SE/SEZ series are based on synthetic esters that were especially developed for use with chlorine-free, fluorinated hydrocarbons (HFC/FC). In contrast to conventional refrigeration oils, these are miscible and compatible with polar HFC/FC.

Application

The RENISO TRITON SE/SEZ series is outstandingly suited for all refrigeration circuits, in which chlorine-free HFC/FC refrigerants, e.g. R134a, R404A or R410A are used. Depending on the viscosity, RENISO TRITON SE/SEZ refrigeration oils are recommended for hermetical, semi-hermetical and open piston compressors and for screw-type and turbo-compressors. RENISO TRITON SEZ 22 is especially suitable for deep-freeze systems operating with R23.

RENISO TRITON SE/SEZ products are also suitable for hydrocarbon refrigerants (e.g. propane, polypropylene, isobutane) and R22. In such cases please contact FUCHS prior to the usage.

Specifications

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

RENISO TRITON SEZ 32 - NSF H2 registration:
registration number 146752

RENISO TRITON SE 55 – NSF H2 registration:
registration number 146754

Advantages/ Benefits

- **Special synthetic polyolester**
- **Stable lubrication film even at high temperatures, outstanding lubricity**
- **Excellent solubility with HFC and FC refrigerants**
- **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**
- **Readily biodegradable (ISO VG 32 and ISO VG 55)**
- **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 SE/SEZ 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 technical data:

		RENISO TRITON				
Product name		SEZ 22	SEZ 32	SE 55	SEZ 68	
Properties	Unit					Test method
Density at 15 °C	kg/m ³	1003	1004	1009	970	DIN 51757
Flash point	°C	248	250	286	258	DIN ISO 2592
Color	-	0	0.5	1.0	0.5	DIN ISO 2049
Kinematic viscosity	at 40 °C					DIN EN ISO 3104
	at 100 °C	mm ² /s	20	32	55	
	mm ² /s	4.4	6.1	8.8	8.9	
Viscosity index	-	133	141	137	104	DIN ISO 2909
Pourpoint	°C	-57	-57	-48	-39	DIN ISO 3016
Neutralization number	mgKOH/g	0.03	0.03	0.03	0.03	DIN 51558-1
Water content	mg/kg	< 50	< 50	< 50	< 50	DIN 51777-2

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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.

While the information and figures given here are typical of current production and conform to specification, minor variations may occur. No warranty expressed or implied is given concerning the accuracy of the information or the suitability of the products

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Typical technical data:

		RENISO TRITON				
Product name		SEZ 80	SEZ 100	SE 170	SE 220	
Properties	Unit					Test method
Density at 15 °C	kg/m ³	992	970	972	976	DIN 51757
Flash point	°C	251	266	260	294	DIN ISO 2592
Color	-	0.5	1.0	0.5	0.5	DIN ISO 2049
Kinematic viscosity at 40 °C	mm ² /s	82	100	173	220	DIN EN ISO 3104
at 100 °C	mm ² /s	10.4	11.4	17.1	19.0	
Viscosity index	-	115	100	106	98	DIN ISO 2909
Pourpoint	°C	-39	-30	-27	-27	DIN ISO 3016
Neutralization number	mgKOH/g	0.03	0.03	0.03	0.03	DIN 51558-1
Water content	mg/kg	< 50	< 50	< 50	< 50	DIN 51777-2

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Recommendations:

Compressor Units	RENISO TRITON							
	SEZ 22	SEZ 32	SE 55	SEZ 68	SEZ 80	SEZ 100	SE 170	SE 220
R134a								
Refrigerators	1	2	4	4	4	4	4	4
Household refrigerators	1	1	3	4	4	4	4	4
Semi-hermetical and hermetical compressors	2	1	2	2	3	3	4	4
Open compressors	3	1	1	1	2	2	4	4
Screw compressors	3	3	3	3	3	2	1	1
Turbocompressors	4	4	1	1	2	2	4	4
A/C systems for pass. vehicles	4	4	1	1	2	2	4	4
R23								
Piston and screw-type compressors	1	1	4	4	4	4	4	4

Rating: 1 very good 4 not recommended