PRODUCT INFORMATION



RENISO TRITON SE/SEZ

Fully synthetic refrigeration oils based on polyolesters for chlorine-free refrigerants, e.g. R134a, R404A

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.

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 must be filled immediately in the system. Remaining fluid must be used within one day.

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 behaviour
- 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
- Readily biodegradable (ISO VG 32 and ISO VG 55)
- Ultra-dried

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February 2011 GDUK Page 1 of 3

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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CHARACTERISTICS: RENISO TRITON SE/SEZ

RENISO TRITON		SEZ 15	SEZ 22	SEZ 32	SE 55	
Characteristics	Unit					Test Method
Density at 15°C	kg/m³	1023	1001	1004	1009	DIN 51 757
Flash point	°C	235	228	250	286	DIN ISO 2592
Colour	-	0.5	0.5	1.0	1.0	DIN ISO 2049
Kinematic viscosity at 40°C at 100°C	mm²/s mm²/s	15.9 3.6	20 4.4	32 6.1	55 8.8	DIN EN ISO 3104
Viscosity index	-	115	134	140	137	DIN ISO 2909
Pour point	°C	-60	-57	-57	-48	DIN ISO 3016
Neutralisation number	mgKOH/g	0.03	0.03	0.03	0.03	DIN 51 558
Water content	mg/kg	< 50	< 50	< 50	< 50	DIN 51 777-1

RENISO TRITON		SEZ 68	SEZ 80	SEZ 100 SE 170		SE 220	
Characteristics	Unit						Test Method
Density at 15°C	kg/m³	970	992	970	972	976	DIN 51 757
Flash point	°C	258	251	266	260	285	DIN ISO 2592
Colour	-	0.5	0.5	1.0	1.0	0.5	DIN ISO 2049
Kinematic viscosity at 40°C at 100°C	mm²/s mm²/s	68 8.8	82 10.4	100 11.4	173 17.6	220 20.0	DIN EN ISO 3104
Viscosity index	-	125	115	100	111	105	DIN ISO 2909
Pour point	°C	-39	-39	-30	-27	-27	DIN ISO 3016
Neutralisation number	mgKOH/	/g 0.03	0.03	0.03	0.03	0.03	DIN 51 558
Water content	mg/kg	< 50	< 50	< 50	< 50	< 50	DIN 51 777-1

February 2011 GDUK Page 2 of 3

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Recommendations:

Compressors Units	SEZ 15	SEZ 22	SEZ 32	SE 55	SEZ 68	SEZ 80	SEZ 100	SE 170	SE 220
R 134a									
Refrigerators	1	1	2	4	4	4	4	4	4
Household refrigerators	2	1	1	3	4	4	4	4	4
Semi-hermetic and hermetic compressors	4	2	1	2	2	3	3	4	4
Open compressors	4	3	1	1	1	2	2	4	4
Screw compressors	4	3	3	3	3	3	2	1	1
Turbocompressors	4	4	4	1	1	2	2	4	4
A/C systems for passenger vehicles	4	4	4	1	1	2	2	4	4
R 23									
Piston and screw-type compressors	2	1	1	4	4	4	4	4	4

Rating: 1 very good 4 not recommended

February 2011 GDUK Page 3 of 3

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