FUCHS LUBRICANTS FOR REFRIGERATION

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Overview of RENISO products

Brand name	Description	Density at 15 °C [kg/m³]	Flashp., Clev. [°C]	Kin. Visc. at 40 °C [mm²/s]	Kin. Visc. at 100 °C [mm²/s]	VI (Viscosity Index)	Pour-point [°C]	Main application area
RENISO TRITON SE/SEZ – Fully synthetic refrigeration oils based on polyol esters (POE)								
RENISO TRITON SEZ 32 (20 x 1 L) (4 x 5 L) (3 x 10 L)	Fully synthetic refrigeration oils based on synthetic polyol esters - especially suitable for non-ozone depleting FC / HFC refrigerants, such as R134a, R404A, R507, R410A, R407C. Also suitable for hydrocarbon refrigerants. As polyol ester oils strongly tend to absorb water (hygroscopic behaviour), the contact of these lubricants with air (atmospheric humidity) has to be limited to a minimum. DIN 51503: KD, KE SE/SEZ is also suitable for the use with HFO and HFO/HFC refrigerants.	1004	250	32	6,1	141	-57	The RENISO TRITON SE/SEZ products are perfectly suited for all refrigeration circuits in which chlorine-free refrigerants (HFCs / FCs), e.g. R134a are used. RENISO TRITON SE/SEZ-refrigeration oils are recommended for hermetic, semi-hermetic and open piston compressors, as well as for screw and turbo compressors (depending on viscosity). Comprehensive tests have been performed with the use of RENISO TRITON SE/SEZ products with new refrigerants designed to replace R22, such as R422A/D and R417A. Comprehensive laboratory tests as well as practical experiences with HFO and HFO/HFC refrigerants already exist. **Based on polyol ester**
RENISO TRITON SE 55 (20 x 1 L) (4 x 5 L) (3 x 10 L)		1009	286	55	8,8	140	-48	
RENISO TRITON SEZ 68 (20 x 1 L) (4 x 5 L) (3 x 10 L)		972	258	68	8,9	104	-39	
RENISO C – Fully synthetic refrigeration oils based on polyol esters (POE) for CO_2 applications								
RENISO C 85 E (20 x 1 L) (3 x 10 L)	Synthetic refrigeration oils based on special polyol esters with anti-wear additives for use with the refrigerant CO_2 (subcritical and transcritical applications). Also suitable for HFC / FC refrigerants. DIN 51503: KB, KD	993	246	80	10.6	118	-42	The RENISO C products were especially developed for use in applications with the refrigerant CO_2. Application fields: supermarket refrigeration equipment (subcritical deep-freeze stage of cascade systems & trans-critical applications), ship cooling, as well as nearly all fields of industrial and commercial refrigeration. **Based on polyol ester**
RENISO SYNTH 68 / RENISO UltraCool – Fully synthetic refrigeration oils based on synthetic hydrocarbons (PAO)								
RENISO SYNTH 68	Synthetic refrigeration oil based on polyalphaolefins (PAO). For NH_3 applications and hydrocarbon refrigerants. Also suitable for CO_2 (not miscible with CO_2). DIN 51503: KAA, KB, KE NSF-H1-approved, acceptable as a lubricant with incidental food contact, for use in and around food processing areas.	835	260	68	10.5	142	-57	RENISO SYNTH 68 has been developed especially for the lubrication of highly stressed NH_3 compressors. Excellent stability with NH_3. Excellent low temperature flowability, suitable for evaporation temperatures below -50°C. Very good thermal stability. Very good lubricity also in hydrocarbon (propane R290, propylene R1270, etc.) and CO_2 applications (not miscible with CO_2). **Based on PAO**
RENISO UltraCool 68	Refrigeration oils based on synthetic hydrocarbons. Particularly developed for ammonia applications. DIN 51503: KAA	854	250	62	9.1	124	-48	RENISO UltraCool 68 and UltraCool 100 combine high thermal stability (no varnish, no sludge) and low evaporation rate (low oil carry-over/ low oil loss) with good elastomer compatibility (CR, HNBR, NBR).

Refrigeration oils play an important role in the area of lubricants and lubrication technology. The expected long life of refrigerant compressors largely depends on the quality of the used refrigeration oil.

Apart from favourable solubility characteristics with the refrigerant, good low-temperature flowability, high thermal stability, good ageing resistance and high chemical stability in the presence of refrigerant are additional important parameters.

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				RENISO K – Mineral oil based refrigeration oils				
RENISO 32 (20 x 1 L)	High quality Naphthenic mineral lubricating oils designed for the lubrication of refrigeration and air conditioning compressors with good chemical stability when working with commonly used refrigerants.	-	-	32	4.9	–	-39	It is especially suitable for use with Ammonia, R-11, R-12 and R-22 refrigerants. Suitable for use in refrigeration compressors operating under moderate evaporator temperature conditions (see R12 Floc points) and thermal loads, including open and semi-sealed industrial types.
RENISO 68		-	-	68	7.4	–	-30	

FUCHS LUBRICANTS SOUTH AFRICA (PTY) LTD

Innovative lubricants need experienced application engineers

Every lubricant change should be preceded by expert consultation on the application in question. Only then can the best lubricant system be selected. Experienced FUCHS engineers will be happy to advise on products for the application in question and also on our full range of lubricants.

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