



eni BETULA 68

Agent free **refrigerator oil** of high purity grade from high-quality naphtenic mineral oil raffinates with excellent cold behaviour.

Characteristics (typical figures):

eni BETULA		Unit	68	Test method
Kin. Viscosity	at 40°C	mm ² /s	61,3	DIN 51 550
	at 100°C	mm ² /s	6,8	
Viscosity index			43	
Density at 15°C		kg/m ³	898	ASTM D 1298
Flock point		°C	-51	ASTM D 92
Flashpoint		°C	202	DIN 51 551
Pourpoint		°C	-40	ASTM D 97
ISO-VG-grade			68	DIN 51 519

Properties and Performance:

Due to the balanced refining technology **eni BETULA** has good lubrication properties and corrosion protection, excellent resistance against refrigerants, good thermal stability and a favourable cold flow behaviour. The favourable cold flow behaviour enables easy deoiling on the evaporator side and therefore ensures the trouble-free operation of the refrigerator system. Paraffinic deposits in the lubrication circulation and at the throttle valves are effectively prevented.

eni BETULA offers all properties essential for the right lubrication of refrigerators such as very long oxidation and coking tendency and a low freezing and flock-point.

Applications:

eni BETULA is for the lubrication of refrigerant compressors, cooling systems and machines that are operated at low temperatures. This product can be applied in all areas of refrigeration and air conditioning, in industrial refrigerators with high or low evaporation temperatures.

Refrigerator oils of the group KA are mainly favoured for ammoniac systems, group KC for other refrigerants. When using CO₂ or SO₂ as refrigerant eni OBI is recommended as lubricant.



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Additional physical-technical data:

eni BETULA	Unit	68	Test method
Neutr.-number (s)	mgKOH/g	0,05	DIN 51 558 T.1
Neutr.-number (wls)	mgKOH/g	neutral	DIN 51 558 T.1
Saponification no.	mgKOH/g	< 0,2	DIN 51 559
Ash (Oxide)	g/100g	< 0,01	DIN EN 7
Water content	g/100g	not provable	DIN ISO 3733
	mg/kg	80	DIN 51777 T. 1
R 12-insoluble at -30°C	wt %	< 0,05	DIN 51 590 T.1
Refrigerant resistant with R 12	h	> 96	DIN 51 593

Specifications:

eni Betula 68 meets the test requirements of the following specifications:

- ISO-L-DRA
- ISO-L-DRC
- DIN 51303 KAA
- DIN 51503 KC
- MM-O-2008 Typ II (NATO O 283)

eni Betula 68 is approved from the following manufacturers:

- BITZER KT-500-5 (with old name TER)