

HVO – Hydrotreated Vegetable Oil

Requirements acc. to DIN EN 15940:2023-07 Class A and B

Property	Unit	Limits class A		Limits class B		Test method
		Min.	Max.	Min.	Max.	
Cetane number	-	70,0	-	51,0	-	EN 15195 prEN 16906 EN 17155:2018 EN ISO 5165
Density at 15 °C	kg/m ³	765,0	800,0	780,0	810,0	EN ISO 3675, EN ISO 12185
Flash point	°C	55		55	-	EN ISO 2719
Viscosity at 40 °C	mm ² /s	2,000	4,500	2,000	4,500	EN ISO 3104 ISO 23581
Distillation % (V/V) recovered at 250 °C	% (V/V)	-	<65	-	<65	EN ISO 3405:2019 EN ISO 3924:2019 EN 17306:2019
% (V/V) recovered at 350 °C	% (V/V)	85	-	85	-	
95 % (V/V) recovered at	°C	-	360	-	360	
Lubricity, corrected wear scar diameter at 60 °C	µm	-	400	-	400	EN ISO 12156-1
Fatty acid methyl ester (FAME) content	% (V/V)	-	7,0	-	7,0	EN 14078:2014
Manganese content	mg/L	-	2,0		2,0	EN 16576:2014
Aromatic hydrocarbons	% (m/m)	-	1,1	-	1,1	EN 12916:2019 +A1:2022
Sulfur content	mg/kg	-	5,0	-	5,0	EN ISO 13032:2012 EN ISO 20846:2019 EN ISO 20884:2019
Carbon residue (on 10 % distillation residue)	% (m/m)	-	0,30	-	0,30	EN ISO 10370
Ash content	% (m/m)	-	0,010	-	0,010	EN ISO 6245
Water content	% (m/m)	-	0,020	-	0,020	EN ISO 12937
Total contamination	mg/kg	-	24	-	24	EN 12662
Copper strip corrosion (3 h at 50 °C)	Rating	Class 1		Class 1		EN ISO 2160
Oxidation stability	g/m ³	-	25	-	25	EN ISO 12205
Oxidation stability for fuel with a FAME content greater than 2.0% (V/V)	h	20,0	-	20,0	-	EN 15751 or EN 16091
	min	60,0		60,0		

CFPP	Summer 15.04. - 30.09.	°C	-	0	EN 116, EN 16329
	Transition period 01.10. - 15.11. 01.03. - 14.04.		-	-10 -10	
	Winter 16.11. - 28.02.		-	-20	

Incidentally DIN EN 15940:2023-07 must be fulfilled.

Valid from: 01.07.2023

Version: 4.0

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