

# HVO 100Bio

100 % biomass based low carbon fuel

## Description

HVO 100Bio is an alternative fuel for diesel engines. The product is made from 100% biomass and is sustainability certified. The WTW  $CO_2$  Carbon footprint of the product is up to 90% lower than the reference value 94 g  $CO_2$ /MJ in Directive 2009/28/EC, Renewable Energy Directive (REDII).

HVO 100Bio is practically free of aromatics and has a high cetane number. These properties help reduce the local emissions of e.g. particulate matter and NOx compared to the use of ordinary diesel. It is colourless and almost odourless.

Can be mixed with traditional diesel and GTL Fuels.

#### Specifications

HVO 100Bio complies with the specification EN 15940 Class A for paraffinic fuels but not with the European diesel specification EN590.

Does not contain FAME.

#### **Cold Flow Properties**

Feature – typical values	<b>Summer</b> 1/4 - 30/11	<b>Winter</b> 1/12 - 31/3
Cold Filter Plugging Point (CFPP), max. °C	÷20	÷20
Cloud Point, max. °C	÷15	÷15

### **Typical Energy Data**

Feature	Typical value
Lower calorific value, MJ/kg	44,0
Energy Content, kWh/l	9,5

### Material Safety Data Sheet

Guidance on Health and Safety is available on the Material Safety Data Sheet, which can be downloaded www.dccenergi.dk.



# HVO 100Bio

100 % biomass based low carbon fuel

#### Specification EN15940 class A

Feature	Unit	Minimum	Maximum	Method
Cetane number		70,0		EN 15195
Density at 15 °C	kg/m <sup>3</sup>	765,0	800,0	EN ISO 12185
Total aromatic content	% (m/m)		1,0	EN 12916
Sulphur content	mg/kg		5,0	EN ISO 20846 EN ISO 20884
Flash point	°C	>551		EN ISO 2719
Carbon residue (@ 10 % distillation residue)	% (m/m)		0,30	EN ISO 10370
Ash content	% (m/m)		0,01	EN ISO 6245
Water content	mg/kg		200	EN ISO 12937
Total contamination, impurities	mg/kg		24	EN 12662
Copper corrosion (3 hours @ 50 °C)		Class 1		EN ISO 2160
Oxidation stability	g/m³		25	EN ISO 12205
Oxidation stability	hours	20		EN 15751
Lubricity, corrected (1,4) @ 60 °C	μm		460	EN ISO 12156-1
Viscosity @ 40 °C	mm²/s	2,00	4,50	EN ISO 3104
Distillation 95 % (v/v)	°C		360	EN ISO 3405
Distillation % (v/v) @ 250 °C	% (v/v)		<65	EN ISO 3405
Distillation % (v/v) @ 350 °C	% (v/v)	85		EN ISO 3405

<sup>1</sup>HVO 100Bio >60°C

2024\_12\_16 DCC371, 372, 373