

GREEND HVO is a bio-based paraffinic diesel fuel defined in the EN 15940 specification.

Property	Unit	Test Method	EN 15940	GREEND+ Specification		Diesel Standards		
				Min	Max	EN 590	ASTM D975:15b	JIS K2204 No. 2
Cetane number	-	EN 15195	≥ 70	70	-	≥ 51	≥ 40	45
Density at 15°C	kg/m <sup>3</sup>	EN ISO 12185	765 - 800	770	790	820 - 455		
Sulfur content	mg/kg	EN ISO 20846	≤ 5.0	-	5.0	≤ 10.0	≤ 15.0	≤ 10.0
Flash point	°C	EN ISO 2719	> 55	61	-	> 55	> 52	> 50
Carbon residue (on 10% distillation residue)	%(m/m)	EN ISO 10370	≤ 3.0	-	0.10	≤ 0.30	≤ 0.35	
Ash content	%(m/m)	EN ISO 6245	≤ 0.010	-	0.001	≤ 0.010	≤ 0.010	
Water content	mg/kg	EN ISO 12937	≤ 200	-	100	≤ 200		
Total contamination	mg/kg	EN ISO 12662	≤ 24	-	10	≤ 24		
Copper strip corrosion (3h at 50°C)	Rating	EN ISO 2160	Class 1	Class 1		Class 1	Class 3	
Oxidation stability	g/m <sup>3</sup>	EN ISO 12205	≤ 25	-	25	≤ 25		
Lubricity, corrected wear scar diameter (wsd 1.4) at 60°C	mm	EN ISO 12156-1	≤ 460	-	400	≤ 460	≤ 520	
Viscosity at 40°C	mm <sup>2</sup> /s	EN ISO 3104	2.0-4.5	2.0	4.0	2.0 - 4.5	1.9 - 4.1	≥ 2.5
Distillation IBP	°C	EN ISO 3405	-	180	-			
% (V/V) recovered at 250°C	% (V/V)		< 65	-	< 65	< 65		
% (V/V) recovered at 350°C	% (V/V)		≥ 85	85	-	85		
95% (V/V) recovered at	°C		≤ 360	-	320	≤ 460		
Cloud Point (Summer/Winter) and CFPP	°C	EN 23015 / EN 116	-	-15/-32 CFPP reported		Down to -34		
Appearance	-	Visual	-	Clear and bright				
Total aromatics content	%(m/m)	EN 12916	≤ 1.1	-	1.0		≤ 35	
Electrical Conductivity	pS/m	ISO 6297	-	100	-			
Acidity total (TAN)	mgKOH/g	ASTM D3242	-	-	0.01			
Sediment, particulate matter	g/kg	EN 12662	10		< 1			
Net heat of combustion, measured	MJ/kg	ASTM D4809	42		44			

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The supplier guarantees no FAME is added in the product.

The supplier guarantees that the product does not contain manganese.

Version: EN 15940 Specification

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