



RENEWABLE FUEL - HVO

Product name: **Renewable Fuel**

Alternative names: **HVO, Green D+, Biodiesel, Parrafinic Diesel Replacement**

Our Renewable Fuel (HVO) is a bio-based paraffinic diesel fuel defined in the EN 15940 specification. The supplier guarantees no FAME is added in the product. The supplier guarantees that the product does not contain manganese.

METHOD OF APPLICATION

Properties	Unit	Test Method	EN 590	EN 15940	ASTM D975	Renewable Fuel	
						Min	Max
Cetane Number	-	EN 15195	> 51	> 70	> 40	70	-
Density at 15°C	kg/m ³	EN ISO 12185	820 – 845	765 – 800	-	770	790
Sulphur Content	mg/kg	EN ISO 20846	< 10.0	> 5.0	< 15.0	-	5.0
Flash Point	°C	EN ISO 2719	> 55	> 55	> 52	61	-
Carbon Residue (on 10% distillation residue)	% (m/m)	EN ISO 10370	< 0.30	< 0.30	< 0.35	-	0.10
Ash Content	% (m/m)	EN ISO 6245	< 0.010	< 0.010	< 0.010	-	0.001
Water Content	mg/kg	EN ISO 12937	< 200	< 200	-	-	100
Total Contamination	mg/kg	EN ISO 12662	< 24	< 24	-	-	10
Copper Strip Corrosion (3h at 50°C)	Rating	EN ISO 2160	Class 1	Class 1	Class 3	Class 1	
Oxidation Stability	g/m ³	EN ISO 12205	< 25	< 25	-	-	25
Lubricity, orrected wear scar diameter (wsd 1.4) at 60°C	mm	EN ISO 12156-1	< 460	< 460	< 520	-	400
Viscosity at 40°C	mm ² /s	EN ISO 3104	2.0 - 4.5	2.0 - 4.5	1.9 – 4.1	2.0	4.0
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	< 360	-	-	320
Cloud Point (Summer/Winter) and CFPP	°C	EN 23015 / EN 116	Down to -34	-	-	-15/-32 CFPP Reported	
Appearance	-	Visual	-	-	-	Clear and Bright	
Total Aromatics Content	% (m/m)	EN 12916	-	< 1.1	< 35	-	1.0
Electrical Conductivity	pS/m	ISO 6297	-	-	-	100	-
Acidity Total (TAN)	mgKOH/g	ASTM D3242	-	-	-	-	00.1
Sediment, Particulate Matter	g/kg	EN 12662	-	10	-	-	< 1
Net Heat of Combustion, Measured	MJ/kg	ASTM D4809	-	42	-	-	44