

# Hydrotreated Vegetable Oil (HVO)

## EN 15940 & ASTM D975 Diesel Fuel

HVO fuel is a paraffinic renewable diesel fuel derived from sustainable raw materials. The fuel is formulated from fossil-free and FAME-free sources.

Parameter	Units	Test Method	Specification	Typical Value
Appearance	-	ASTM D4176-2	Clear & bright	Clear & bright
Density	kg/l	EN ISO 12185	0.770 - 0.790	0.780
Viscosity	mm <sup>2</sup> /s	EN ISO 3104	2.0 - 4.0	2.8
Sulphur content	mg/kg	EN ISO 20884	5 max	<5
Flash point	°C	EN ISO 2719	61 min	>70
Ash content	% m/m	EN ISO 6245	0.001 max	<0.001
Initial boiling point	°C	EN ISO 3405	180 min	>180
Recovered at 250°C	% v/v	EN ISO 3405	<65	<20
Recovered at 350°C	% v/v	EN ISO 3405	85 min	>98
95% recovered at	°C	EN ISO 3405	360 max	>95
Cetane number	-	EN 15195	70 min	80
Cetane index	-	EN ISO 4264	70 min	80
CFPP	°C	EN 116	Meets EN15940 Grade E requirements	-17°C
Carbon residue (on 10% distillation residue)	% m/m	EN ISO 10370	0.1 max	<0.01
Oxidation stability	g/m <sup>3</sup>	EN ISO 12205	25 max	<5
Copper strip corrosion 3hr/50°C	-	EN ISO 2160	1 max	1a
Net heat combustion	MJ/kg	ASTM D4809	42 min	44
Particulate matter	mg/kg	EN 12662	10 max	<1
Lubricity/HFRR	µm	EN ISO 12156-1	400 max	350
Lubricity/SL BOCLE	g	ASTM D6078		>3500
Renewable diesel	% v/v	-	100	100
Fatty acid methyl ester	% v/v	-	0	0
Total aromatics	% m/m	EN 12916	1 max	<1
Polycyclic aromatics (PAH)	% v/v	SS 155116	0.02 max	<0.02
Biogenic carbon by C14	% m/m	ASTM D6866 A&C/EN16640A	96% min	>96%

The above are typical figures and we reserve the right to alter the specification without notice. Nothing on this specification constitutes a guarantee.