

SPECIFICATIONS THAT MAKE A DIFFERENCE

Prema HVO meets EN 15940, an exacting standard for paraffinic diesel fuels set by CEN, the European standardisation body. It also meets the international diesel fuel standard ASTM D975.

PARAMETER	TEST METHOD	UNITS	SPECIFICATIONS	TYPICAL VALUE
Appearance	ASTM D4176-2	-	Clear & Bright	Clear & Bright
Density	EN ISO 12185	kg/a ³	0.770 - 0.790	0.780
Viscosity	EN ISO 3104	mm ² /s	2.0 - 4.0	2.8
Sulphur Content	EN ISO 20884	mm/kg	5 max	<5
Flash Point	EN ISO 2719	C	61 min	>70
Cloud Point	EN 23015	C	-15 max	
Summer			- 15 max	<-15
Winter			-34 max	<-34
CFPP	EN 116	C	-15 max	
Summer			-15 max	<-15
Winter			-34 max	<-34
Water Content	EN ISO 12937	mg/kg	200 max	40
Ash Content	EN ISO 6245	% m/m	0.001 max	<0.001 max
Initial Boiling Point	EN ISO 3405	C	180 min	>180
Recovered at 250C	EN ISO 3405	% v/v	<65	<20
Recovered at 350C	EN ISO 3405	% v/v	85 min	>98
95% recovered at	EN ISO 3405	C	360 min	>95
Centance Number	EN 15195	-	70 min	80
Centance Index	EN ISO 4264	-	70 min	80
CFPP	EN 116	C	-15.....-34	-
Carbon Residue (on 10% distillation residue)	EN ISO 10370	% m/m	0.1 max	<0.01
Oxidation Stability	EN ISO 12205	g/m ³	25 max	<5
Copper Strip Corrosion 3hr/50C	EN ISO 2160	-	1 max	1a
Net Heat of Combustion	ASTM D4809	MJ/kg	42 min	44
Particulate Matter	EN 12662	mg/kg	10 max	<1
Lubricity/HFRR	EN ISO 12156-1	µm	400 max	350
Renewable Diesel	-	% v/v	100	100
Fatty Acid Methyl Ester	-	% v/v	0	0
Total Aromatics	EN 12916	% m/m	1 max	<1
Polycyclic Aromatics (PAH)	SS 155116	% v/v	0.02 max	<0.02

*Meets the European diesel fuel standard EN590 in all respects except density, which is below the lower limit, typically 780 kg/m³. EN590 density parameters are 820-845 kg/m³. However, heating value per litre is similar; 34.4 MJ/litre for HVO and 36 MJ/litre for regular Diesel.

**A key difference with EN590 is FAME. HVO has zero FAME, providing superior performance in storage and application.