

EN590-10PPM: Diesel Fuel Specification

Property	Unit	Lower limit	Upper limit	Result	Test Method
Aspect				Clear	Visual inspection
Colour				2.0	ASTM D1500
Cetane number		51.0		51.0	EN ISO 5165
Cetane index		46.0		46.0	EN ISO 4264
Density @ 15°C	kg/m3	820	845	845	EN ISO 3675, EN ISO 12185
Viscosity at 40°C	mm2/s	2.0	4.5	4.5	EN ISO 3104
Sulphur content	mg/kg		10.0	10.0	EN ISO 20846, EN ISO 20847, EN ISO 20888
Flash point	°C	Above 55		62	EN ISO 2719
Carbon 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	mg/kg		24		EN ISO 12662
Fatty Acid Methyl Ester (FAME) (biodiesel) content	% v/v		7		EN 14078
Polycyclic aromatic hydrocarbons	% m/m		11 (8)		EN ISO 12916
Copper strip corrosion (3 hours at 50°C)	index	Class 1	Class 1		EN ISO 2160
Lubricity, corrected wear scar diameter (wsd 1.4) at 60°C	µm		460		EN ISO 12156-1
Oxidation Stability	g/m3		25		EN ISO 12205
Oxidation Stability	h	20			EN 15751
Distillation recovered at 150 °C/ 250 °C	% v/v	85	< 65	65/360	EN ISO 3405
95%(V/V) recovered at	°C		360		
Cold Filter Plugging Point (winter)	°C		-15	-12.0	
Cold Filter Plugging Point (summer)	°C		-5	-2.0	
Manganese content	mg/l		2.0		EN 16576
Filter blocking tendency			2.52		IP 387, procedure B
Cloud Point (summer)				0	EN ISO 23015
Cloud Point (winter)				0	EN ISO 23015