

FUEL OILS

SPECIFICATION DATA SHEET

BioDiesel (100%) EN 14214

Biodiesel is defined as the mono alkyl esters of long chain fatty acids derived from vegetable oils or animal fats, for use in compression-ignition (diesel) engines.

This specification is for pure (100%) biodiesel prior to use or blending with diesel fuel.

Property	Unit	Minimum	Maximum	Test Method
Ester Content	% (m/m)	96.5		prEN 14103
Density @ 15°C	kg/m ³ ;	860	900	EN ISO 3675
Viscosity @ 40°C	mm ²	3.5	5.0	EN ISO 12185
Flash Point	°C	Above 101		EN ISO 310
Sulphur Content	mg/Kg		10	ISO / CD 3679
Carbon Residue (10% Bottoms)	% (m/m)		0.3	EN ISO 10370
Cetane Number		51.0		EN ISO 5165
Sulphated Ash Content	% (m/m)		0.02	ISO 3987
Water Content	mg/Kg		500	EN ISO 12937
Total Contamination	mg/Kg		24	EN 12662
Copper Strip Corrosion (3hr @ 50°C)	rating	Class 1	Class 1	EN ISO 2160
Thermal Stability				
Oxidation Stability, 110°C	hours	6		pr EN 14112
Acid Value	mg KOH/g		0.5	pr EN 14104
Iodine Value			120	pr EN 14111
Linolenic acid methyl ester	% (m/m)		12	pr EN 14103
Polyunsaturated (>= 4 double bonds) methyl esters	% (m/m)		1	
Methanol Content	% (m/m)		0.2	pr EN 14110
Monoglyceride Content	% (m/m)		0.8	pr EN 14105
Diglyceride Content	% (m/m)		0.2	pr EN 14105
Triglyceride Content	% (m/m)		0.2	pr EN 14105
Free Glycerol	% (m/m)		0.02	pr EN 14105
Total Glycerol	% (m/m)		0.25	pr EN 14106
Alkaline Metals (Na + K)	mg/Kg		5	pr EN 14105
Phosphorus Content	mg/Kg		10	pr EN 14108
				pr EN 14109
				pr EN 14107