



Specifications for Biodiesel (B100) ASTM D 6751 and EN 14214 Methods

ASTM D 6751-08

Property	Test Method	Specification Limits
Acid Number	ASTM D 664	0.50 maximum mgKOH/g
Calcium and Magnesium	EN 14538	5 ppm maximum
Carbon Residue	ASTM D 4530	0.050 maximum Wt %
Cetane Number	ASTM D 613	47 min
Cloud Point	ASTM D 2500	Report in °C
Cold Soak Filterability	ASTM Annex A1	360 max ^F Seconds
Copper Strip Corrosion	ASTM D 130	No. 3 maximum
Distillation-Atmospheric Equivalent Temperature 90% Recovery	ASTM D 1160	360 maximum °C
Flash Point	ASTM D 93	130 minimum °C
Glycerin – Free	ASTM D 6584	0.020 maximum Wt %
Glycerin – Total	ASTM D 6584	0.240 maximum Wt %
Kinematic Viscosity - 40°C	ASTM D 445	1.9 – 6.0 mm ² /s
Methanol Content	EN 14110	0.20 maximum Wt %
Oxidation Stability	EN 14112	3 hours minimum
Phosphorus Content	ASTM D 4951	0.001 Wt % or 10 ppm
Sodium and Potassium	EN 14538	5.00 ppm maximum
Sulfated Ash	ASTM D 874	0.020 maximum Wt %
Sulfur (S15)	ASTM D 5453	15.0 ppm maximum
Sulfur (S500)	ASTM D 5453	500 ppm maximum
Water and Sediment	ASTM D 2709	0.050 maximum Vol. %

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EN 14214 – 03

Property	Test Method	Specification Limits
Acid Number	EN 14104	0.50 mgKOH/g maximum
Carbon residue (10% Bottoms)	EN OSO 10370	0.30 %(m/m) maximum
Cetane Number	EN ISO 5165	51.0 minimum
Copper Strip Corrosion (3hr @ 50°C)	EN ISO 2160	Class 1 rating
Density @ 15°C	EN ISO 3675, EN ISO 12185	860-900 Kg/m ³
Ester Content	EN 14103	96.5 %(m/m) minimum
Flash Point	ISO/ CD 3679	Above 101°C minimum
Glycerol – Free	EN 14105, EN 14106	0.02 %(m/m) maximum
Glycerol – Total	EN 14105	0.25 %(m/m) maximum
Monoglyceride Content	EN 14105	0.80 %(m/m) maximum
Diglyceride Content	EN 14105	0.20 %(m/m) maximum
Triglyceride Content	EN 14105	0.20 %(m/m) maximum
Iodine Value	EN 14111	120 maximum
Linolenic acid methyl ester	EN 14103	12 %(m/m) maximum
Methanol Content	EN 14110	0.20 %(m/m) maximum
Oxidation Stability @ 110°C	EN 14112	6 hours minimum
Phosphorus Content	EN 14107	10.0 mg/Kg maximum
Polyunsaturated (>4 double bonds) methyl esters		1.00 %(m/m) maximum
Sodium and Potassium	EN 14108, EN 14109	5.00 mg/Kg maximum
Sulfated Ash Content	ISO 3987	0.02 %(m/m) maximum
Sulfur	ASTM D 5453 or other total sulfur method	10 mg/Kg maximum
Total Contamination	EN 12662 (ASTM D 5452)	24.0 mg/Kg maximum
Viscosity @ 40°C	EN ISO 310	3.50 – 5.00 mm ²
Water Content	EN ISO 12937	500 mg/Kg maximum

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