

PRODUCT SPECIFICATION

Product Name	PLAT CLEAR
Description	Palm Oil Mill Effluent Methyl Ester, Used Cooking Oil Methyl Ester, Palm Methyl Ester, Biodiesel

No.	Test Parameter	Units	Standard					
			MS 2008:2008		EN 14214		ASTM D 6751	
			Test Methods	Specs	Test Methods	Specs	Test Methods	Specs
1	Ester Content	% (m/m)	EN14103	Min. 96.5	EN14103	Min. 96.5	-	-
2	Linolenic Acid Methyl Ester Content	% (m/m)	EN14104	Min. 12	EN14104	Min. 12	-	-
3	Polyunsaturated (≥4 double bonds) methyl	% (m/m)	EN14105	Max. 1	EN14105	Max. 1	-	-
4	Density @15 °C	kg/m ³	EN ISO 12185 EN ISO 3675 ASTM D 4052 ASTM D 1298	860-900	EN ISO 12185	860-900	-	-
5	Kinematic Viscosity @ 40 °C	mm ² /s	EN ISO 3104 MS 1831	3.5-5.0	EN ISO 3104	3.5-5.0	ASTM D445	1.9-6.0
6	Flash Point	°C	EN ISO 3679 MS 686	Min. 120	EN ISO 3679	Min. 105	ASTM D93	Min. 130
7	Alcohol Control One of the following must be met: Flash Point	% (m/m) °C	-	-	-	-	EN 14110 ASTM D93	Max. 0.20 Min. 130
8	Sulfur Content	mg/kg ppm	EN ISO 20846 EN ISO 20884 ASTM D 5453	Max. 10	EN ISO 20846	Max. 10	ASTM D5453	Max. 15
9	Carbon residue:	% (m/m)						
	(a) On 10% distillation residue - EN ISO 10370		EN ISO 10370	Max. 0.3	EN ISO 10370	Max. 0.3		
	(b) On 100% distillation residue - ASTM D4530		ASTM D4530	Max. 0.05			ASTM D4530	Max. 0.05
10	Cetane Number	-	EN ISO 5165 MS 1895 ASTM D 6890	Min. 51.0	EN ISO 5165	Min. 51.0	ASTM D6890	Min. 47
11	Sulfated ash content	% (m/m)	EN ISO 3987 ASTM D874	Max. 0.02	EN ISO 3987	Max. 0.02	ASTM D874 (%mass)	Max. 0.02
12	Water Content	mg/kg		Max. 500	EN ISO 12937	Max. 500	-	-
13	Water & Sediment	% Vol		-	-	-	ASTM D2709	Max. 0.05
14	Total Contamination	mg/kg		Max. 24	EN 12662	Max. 24	-	-
15	Copper strip (band) corrosion (3 hrs at 50 °C)	Rating		Min. Class 1	EN ISO 2160	Min. Class 1	ASTM D130	Max. No. 3
16	Oxidation Stability, 110 °C	Hours		Min. 6	EN 14112	Min 8	EN 14112	Min. 3
17	Acid Number / Value	mg KOH/g		Max. 0.5	EN 14104	Max 0.5	ASTM D664	Max. 0.50
18	Iodine Value	g iodine /100 g		Max. 110	EN 14111	Max. 120	-	-
19	Methanol Content	% (m/m)		Max. 0.2	EN 14110	Max. 0.2	-	-
20	Monoglyceride Content	% (m/m)		Max. 0.8	EN 14105	Max. 0.7	-	-
21	Diglyceride Content	% (m/m)		Max. 0.2	EN 14105	Max. 0.2	-	-
22	Triglyceride Content	% (m/m)		Max. 0.2	EN 14105	Max. 0.2	-	-
23	Free Glycerine	% (m/m)		Max. 0.02	EN 14105	Max. 0.02	ASTM D6584 (%mass)	0.02
24	Total Glycerine	% (m/m)		Max. 0.25	EN 14105	Max. 0.25	ASTM D6584 (%mass)	0.24
25	Alkaline Earth Metals (Na + K)	mg/kg		Max. 5	EN 14108 EN 14109	Max. 5	EN 14538	Max. 5
26	Alkaline Earth Metals (Ca + Mg)	mg/kg		Max. 5	EN 14538	Max. 5	EN 14538	Max. 5
27	Phosphorus Content	mg/kg		Max. 10	EN 14107	Max. 4	ASTM D4951 (%mass)	Max. 0.001
28	Cold Filter Plugging Point, CFPP	°C		Max. 15	EN 116	report	-	-
29	Cold Soak Filtration Test	Sec	-	-	-	-	ASTM D6751	Max. 360
30	Distillation temp., atmospheric equivalent temp., 90% recoverd	°C	-	-	-	-	ASTM D1160	Max. 360
31	Cloud Point	°C	-	-	-	-	ASTM D2500	report
32	Flash Point (Closed-up)	°C	-	-	-	-	ASTM D93	Min. 93

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