

BIO DIESEL SPECIFICATIONS <i>Note - test methods can vary between specifications - check each directly to obtain correct test method.</i>														
Attribute	Unit	B100 NZS7500		B5 Retail NZS7500		Non-Retail Blends NZS7500		B100 ASTM D6751	B100 EN14214		B100 JIS(Voluntary)	Blend JIS		B100 AUS 03
		Limits		Limits		Limits		Limit	Limit		Limit	B5	Diesel (used in the blend)	Limit
		Min	Max	Min	Max	Min	Max	Min/Max	Min	Max	Min/Max	Min/Max	Min/Max	Min/MAX
Ester Content	%(m/m)	96.5							96.5		96.5			96.5
Density at 15°C	kg/m ³	860	900	820	850				860	900	860-900			890
Distillation Temperature T95	°C				360							360(T90)	360(T90)	360(T90)
Viscosity at 40°C	mm ² /s	2.00	6.00	2.00	4.50	2.00	4.50	1.9 - 6.0	3.5	5	30.5-5.0			3.5-5.0
FAME												5	0.1	
Flash Point	°C	100		61				130.0	> 101		120			120
Sulphur Content	mg/kg or %		50.0 10.0		50.0 10.0		50.0 10.0	0.0015 max 0.05 max		10	10	0.005	0.005	10
Carbon residue (on 100% distillation or Carbon residue (on 10% distillation residue)	%(m/m)		0.050 0.30		0.25 (on 10% distillation residue)			0.050 max (100% sample)		0.3 (10% bottoms)	0.3 (10% carbon residues)			0.3 (10% carbon residues)
Cetane number	NA	51		51		51		47 min	51.0		51	45 (or CN)	45 (or CN)	51
Sulphated ash content	%(m/m)		0.02		0.02			0.020 max		0.02	0.02			0.02
Ash content	%(m/m)				0.01									
Water content	mg/kg		500		200					500	500			
Water and sediment	%vol						0.015	0.050 max						0.05
Total contamination	mg/kg		24		24					24	24			24
Colour (ASTM colour)					3.0		3.0							
Copper strip corrosion (3h at 50°C)	Rating	Class 1		Class 1				No 3	Class 1		Class 1			Class 1
Oxidation stability, 110°C	hours	6		6					6		Agreement between producer and distributor			
Oxidation stability (sludge)												TBA		
Oxidation stability	g/m ³				25									
Oxidation stability max acid number increase	mg/KOH/g											0.12		
Acid Value (X=% biodiesel)	mg KOH/g		0.50		0.50		0.1+X/250	0.80 max		0.5	0.5	0.13		0.8
Formic, Acetic, Propionic acids	ppm											30		
Iodine value	g l/100g		120		120					120	120			
Linolenic acid methyl ester	%(m/m)		12.00		12.00					12	12			
Mono alcohols content	%(m/m)		0.20		0.20									
Methanol content	%(m/m)									0.2	0.2	0.01		0.2
Polyunsaturated (> = 4 double bonds) methyl esters	%(m/m)									1				
Monoglycerides	%(m/m)		0.80		0.80					0.80	0.8			
Diglycerides	%(m/m)									0.20	0.2			
Triglycerides	%(m/m)									0.20	0.2	5	0.01	
Free glycerol	%(m/m)		0.02		0.02			0.02		0.02	0.02			0.02
Total glycerol (X=% biodiesel)	%(m/m)		0.24		0.24		0.05+X/500	0.240 max		0.25	0.25			0.25
Group I metals (Na + K) Group II metals (Ca + Mg)	mg/kg		5.0 5.0		5.0 5.0					5 (Group I only)	5.0 5.0			5.0 5.0
Phosphorus content	mg/kg		10.0		10.0			0.001 max		10	10			10
Distillation temperature, atmospheric equivalent temperature T90	°C							360 max						
Cloud point	°C				Winter +2 Summer +4		As agreed between seller and purchaser to meet seasonal operability requirements	Report				Pour point agreement between producer and distributor		
Cold Filter Plugging Point (CFPP)	°C				Winter - 6		As agreed between seller and purchaser to meet seasonal operability requirements					Agreement between producer and distributor		
Polycyclic aromatic hydrocarbons (PAH)	%(m/m)				11									
Filter blocking tendency					Fuel shall be of acceptable filterability so that it is fit for common purposes		Fuel shall be of acceptable filterability so that it is fit for common purposes							
Lubricity HFRR wear scar diameter at 60 °C	Microns				460		460							