



## SPECIFICATION FOR BIODIESEL (B100) – ASTM 6751-12

#Biodiesel (B100) and the petroleum diesel must meet their respective ASTM specifications before blending.

Property	ASTM Method	No. 1-B	No. 2-B	Units
Calcium & Magnesium, combined	EN 14538	5 max	5 max	ppm (µg/g)
<b>Flash Point (closed cup)</b>	D 93	93 min	93 min	°C
Monoglycerides	D 6584	0.4 max	N/A	mass %
1. Methanol Content <sup>t***</sup>	EN 14110	0.2 max	0.2 max	mass %
2. Flash Point <sup>***</sup>	D93	130 min	130 min	°C
<b>Water &amp; Sediment</b>	D 2709	0.05 max	0.05 max	% vol.
Kinematic Viscosity, 40 C	D 445	1.9 – 6.0	1.9 – 6.0	mm <sup>2</sup> /sec.
Sulfated Ash	D 874	0.02 max	0.02 max	% mass
<b>Sulfur</b>				
<b>S 15 Grade</b>	D 5453	0.0015 max	0.0015 max	% mass (ppm)
<b>S 500 Grade</b>	D 5453	0.05 max	0.05 max	% mass (ppm)
Copper Strip Corrosion	D 130	No. 3 max	No. 3 max	N/A
Cetane	D 613	47 min	47 min	N/A
<b>Cloud Point</b>	D 2500	Report	Report	°C
Carbon Residue 100% sample	D 4530*	0.05 max	0.05 max	% mass
<b>Acid Number</b>	D 664	0.5 max	0.5 max	mg KOH/g
<b>Free Glycerin</b>	D 6584	0.020 max	0.020 max	% mass
<b>Total Glycerin</b>	D 6584	0.240 max	0.240 max	% mass
Phosphorus Content	D 4951	0.001 max	0.001 max	% mass
Distillation	D 1160	360 max	360 max	°C
Sodium/Potassium, combined	EN 14538	5 max	5 max	ppm (µg/g)
<b>Oxidation Stability</b>	EN 15751	3 min	3 min	hours
<b>Cold Soak Filtration</b>	D 7501	200 max	360** max	seconds

**BOLD = BQ-9000 Critical Specification Testing Once Production Process Under Control**

\* The carbon residue shall be run on the 100% sample.

\*\* 200 seconds maximum for use in temperatures at or below -12°C

\*\*\* Either parameter is to be met

# A considerable amount of experience exists in the US with a 20% blend of biodiesel with 80% diesel fuel (B20). Although biodiesel (B100) can be used, blends of over 20% biodiesel with diesel fuel should be evaluated on a case-by-case basis until further experience is available.