



## SPECIFICATION FOR BIODIESEL BLENDS B6-B20, ASTM 7467-10

#Biodiesel (B100) and the petroleum diesel must meet their respective ASTM specifications before blending. This specification covers blend between 5 and 20 percent biodiesel by volume blended with petroleum diesel fuel.

Property	ASTM Method	Limits	Units
<b>Flash Point</b>	<b>D 93</b>	<b>52 minimum</b>	<b>°C</b>
<b>Water &amp; Sediment</b>	<b>D 2709</b>	<b>0.05 maximum</b>	<b>% vol.</b>
Kinematic Viscosity, 40°C	D 445	1.9 – 4.1 <sup>A</sup>	mm <sup>2</sup> /sec.
Ash Content	D 482	0.01 maximum	% mass
<b>Sulfur</b>			
<b>S 15 Grade</b>	<b>D 5453</b>	<b>0.0015 max. (15)</b>	<b>% mass (ppm)</b>
<b>S 500 Grade</b>	<b>D 5453</b>	<b>0.05 max. (500)</b>	<b>% mass (ppm)</b>
Copper Strip Corrosion	D 130	No. 3 maximum	
Cetane	D 613	40 minimum	
<b>Cloud Point, max or LTFT/CFPP, max</b>	<b>D 2500, D4539, D6371</b>	<b>report</b>	<b>°C</b>
Ramsbottom Carbon Residue on 10% bottoms	D 524	0.35 maximum	% mass
<b>Acid Number</b>	<b>D 664</b>	<b>0.3 maximum</b>	<b>mg KOH/g</b>
Distillation, T90 AET	D 86	343 maximum	°C
<b>Oxidation Stability</b>	<b>EN 15751</b>	<b>6 minimum</b>	<b>hours</b>
Lubricity, HFRR at 60 C	D 6079	520 maximum	microns
<b>Biodiesel Content, % (V/V)</b>	<b>D 7371</b>	<b>6. – 20.</b>	<b>% volume</b>

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

A If Grade No. 1-D or Blends of No. 1-D and Grade No. 2-D diesel fuel are used the minimum viscosity shall be 1.3

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

# 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.