



SPECIFICATION FOR BIODIESEL BLENDS B6-B20, ASTM D7467-09A

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Biodiesel (B100) and the petroleum diesel must meet their respective ASTM specifications before blending. This specification covers blend between 6 and 20 percent biodiesel by volume blended with petroleum diesel fuel.

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Property	ASTM Method	Limits	Units
Flash Point (closed cup)	D 93	52 minimum	degrees C
Water & Sediment	D 2709	0.05 maximum	% vol.
Kinematic Viscosity, 40 C			
Ash Content	D 482	0.01 maximum	% mass
Sulfur			
S 15 Grade	D 5453	0.0015 max. (15)	% mass (ppm)
S 500 Grade	D 5453	0.05 max. (500)	% mass (ppm)
Copper Strip Corrosion	D 130	No. 3 maximum	
Cetane	D 613	40 minimum	
Cloud Point	D 2500	report	degrees C
Carbon Residue, 10% bottom	D 524*	0.35 maximum	% mass
Acid Number	D 664	0.3 maximum	mg KOH/g
Distillation, T90 AET	D 86	343 maximum	degrees C
Oxidation Stability	EN 14112	6 minimum	hours
Lubricity, HFRR at 60°C	D 6079	520 maximum	microns
Biodiesel Content, % (V/V)	D 7371	6. – 20.	% volume

* Ramsbottom Carbon Residue on 10% bottoms, mass %, max.

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.