

## **B100 and Biodiesel/Petroleum Diesel Fuel Blends, BBD100 and Biomass-Based Diesel/Petroleum Diesel Fuel Blends**

113.01 Definitions: For use in this regulation, the following terms and definitions apply. The word “shall” indicates mandatory requirements of this regulation.

1. Alcohol-means methanol, ethanol, isopropyl alcohol, n-propanol (n-propyl alcohol), and any form of butyl alcohol (butanol).
2. Biodiesel-means an oxygenated fuel comprised of mono-alkyl esters of long chain fatty acids from biologically derived oil and fats and shall be designated B100 that meet the current requirements for fuels and fuel additives under 40 CFR Part 79.
3. Biodiesel Blends-means a fuel comprised of a blend of biodiesel with petroleum-based diesel fuel in a specified ratio and shall be designated as BXX. In the abbreviation BXX, the XX represents the volume percentage of biodiesel fuel in the blend. For the purpose of meeting the fuel specifications in subsection 113.02, any fractional percentage of biodiesel will be rounded up to the next whole number. For instance, a B5.3 product will be required to meet the fuel specifications for B6.
4. Biomass-Based Diesel, also referred to as Other Renewable Diesel and Renewable Diesel means a conventional diesel fuel substitute produced from nonpetroleum renewable resources that meets the current requirements for fuels and fuel additives established by the Environmental Protection Agency under 42 U.S.C. 7545, except that the term does not include biodiesel as defined above, and shall be designated BBD100.
5. Biomass-Based Diesel Blend means a fuel comprised of a blend of biomass-based diesel with petroleum-based diesel fuel. Biomass-Based Diesel Blends shall be identified as BBDXX, where the XX represents the volume percentage of biomass based diesel fuel in the blend. For the purpose of meeting the fuel specifications in subsection 113.02, any fractional percentage of biomass based diesel blend will be rounded up to the next whole number. For instance, a BBD5.3 product will be required to meet the fuel specifications for BBD6.
6. Certificate of Analysis (COA) or Certificate of Full Specification Analysis-a document issued by the producer showing that biodiesel and biodiesel blends meet the requirements and specifications set forth in this regulation. The certificate must contain the date of certification and may not be older than 90 days from the date of issue. The testing may be performed by either the producer, importer or an independent laboratory; but, it must be conducted per 300,000 gallons

of produced biodiesel and biodiesel blend or every 90 days, whichever comes first. B21 through B99 certification must be conducted per 300,000 gallons of B21 through B99 produced or every 90 days, whichever comes first. A COA will not be required for a biodiesel blend if a producer has a current COA for biodiesel and petroleum diesel used to make the biodiesel blend.

7. Cetane number-means a numerical measure of the ignition performance of a diesel fuel obtained by comparing it to reference fuels in a standardized engine test.

8. Distributor/Retailer/Marketer-means an entity engaged in the business of the distribution and/or sale of biodiesel and/or biodiesel blends and/or biomass-based diesel or biomass-based diesel blends of B1, BBD1, BBDB1 or greater.

9. Producer/Blender-means the entity responsible to the first purchaser of biodiesel or biodiesel blend or biomass-based diesel or biomass-based diesel blend for that biodiesel or biodiesel blend or biomass-based diesel or biomass-based diesel blend meeting the specifications set forth in this regulation.

**(Adopted August 24, 2009. Amended \_\_\_\_\_, 2011.)**

113.02 Standard fuel specifications for diesel fuel used in biodiesel blends, biodiesel, and biodiesel blends and biomass-based diesel and biomass-based diesel blends.

1. Diesel Fuel. All petroleum diesel fuel used in biodiesel blends shall meet the requirements of the most recent version of ASTM D 975, “Standard Specification for Diesel Fuel Oils” prior to blending with biodiesel.
2. Biodiesel (B100). All biodiesel intended for sale or for blending with diesel shall meet the requirements of the most recent version of ASTM D6751, “Standard Specification for Biodiesel Fuel Blend Stock (B100) for Middle Distillate Fuels.”
3. Biodiesel Blends. Blends of biodiesel and petroleum diesel fuels shall meet the following requirements:
  - a. Blends B1 up to B5 shall meet the specifications in ASTM D 975, “Standard Specification of Diesel Fuel Oils”.
  - b. Blends of B6-B20 shall meet the specification requirements of the most recent version of ASTM D7467, “Standard Specification for Diesel Fuel Oil, Biodiesel Blend (B6 to B20)” and the most current requirements 26 CFR Part 48.
  - c. Blends of B21-B80 shall meet the specification requirements of Table 3 1 and the most current requirements of 26 CFR Part 48.

d. Blends of B81-B99 shall meet all of the requirements and specifications of B100.

5. Biomass-Based Diesel (BBD100). All biomass-based diesel intended for sale or for blending with diesel shall meet the requirements of the most recent version of ASTM D975, “Standard Specification for Diesel Fuel Oils.”

6. Biomass-Based Diesel Blends. Blends of Biomass-Based Diesel and petroleum diesel fuels shall meet the specifications in ASTM D975, “Standard Specification of Diesel Fuel Oils”.

**(Adopted August 24, 2009. Amended \_\_\_\_\_, 2011.)**

**Table 1 Specifications for B21-B80 biodiesel blends.**

<b>Property</b>	<b>Test Method<sup>a</sup></b>	<b>B21 - B80 S15</b>	<b>B21 - B80 S500<sup>b</sup></b>
Acid Number, mg KOH/g, max	ASTM D 664	0.7	0.7
Kinematic Viscosity mm <sup>2</sup> /s at 104 °F	ASTM D 445	2.0-6.0	2.0-6.0
Flash Point °F, min	ASTM D 93	125 <sup>d</sup>	125 <sup>d</sup>
Alcohol Content % mass max	EN 14110	0.20	0.20
Oxidation Stability hrs, min	EN 14112	6	6
Copper Corrosion Max	ASTM D 130	No. 3	No. 3
Water and Sediments Volume % max	ASTM D 2709	0.05	0.05
Cetane Number	ASTM D613	42	42
Cloud Point	ASTM D 2500	Report	Report
Cold Filter Plugging Point	ASTM D 6371	Report	Report
Sulfur Content, (µg/g) max	ASTM D 7039	15	0.05
Mass % max	ASTM D 4294		

Ramsbottom Carbon Residue on 10% Bottoms, mass % max	ASTM D 524	0.35	0.35
% Biodiesel	FTIR	21-80	21-80

<sup>a</sup> The indicated test methods are the approved referee methods in Mississippi. Other acceptable substitute methods are accepted if approved by ASTM.

<sup>b</sup> If grade No. 1-D or blends of Grade No. 1-D and grade no.2-D diesel fuel are used, the minimum flash point shall be 100 °F.

**(Adopted August 24, 2009. Amended \_\_\_\_\_, 2011.)**

113.03 Classification and Method of Sale of Biodiesel B100 and Biodiesel Blends, Biomass-Based Diesel BBD100 and Biomass-Based Diesel Blends

1. Retail Dispenser Labeling. All B100 biodiesel, and/or BBD100 Biomass-Based Diesel that is kept, offered or exposed for sale or sold at retail shall conspicuously display the product name and/or brand name being sold therefrom exactly as such name and/or brand name that is registered with the department.
  - a. The product shall be named B100 Biodiesel Fuel and/or BBD100 Biomass-Based Diesel Fuel.
  - b. The decal shall be 2” x 6” in size and shall be in a clear and conspicuous place in type of at least one-half (1/2) inch in height, and one-sixteenth (1/16) inch stroke (width of type).  
Example: B100 Biodiesel Fuel, BBD100 Biomass-Based Diesel
2. Retail Dispenser Labeling. All biodiesel blends that are kept, offered or exposed for sale or sold at retail shall conspicuously display the product name and/or brand name being sold therefrom exactly as such name and/or brand name that is registered with the department.
  - a. All biodiesel blend dispensers up to B5 shall be identified “may contain up to 5% biodiesel”. All letters shall be black with a contrasting background.
  - b. All biodiesel blend dispensers B6-B80 shall be identified by the capital letter B followed by the numerical value representing the volume percentage of biodiesel fuel. The product shall be named BXX Biodiesel Fuel Blend.

Example: B10 Biodiesel Fuel Blend, B20 Biodiesel Fuel Blend, B60 Biodiesel Fuel Blend, B80 Biodiesel Fuel Blend.

- c. The decal shall be 2" x 6" in size and shall be in a clear and conspicuous place in type of at least one-half (1/2) inch in height, and one-sixteenth (1/16) inch stroke (width of type).
  - d. When biodiesel blends greater than 20% by volume are offered for sale, each side of the dispenser where fuel can be delivered shall have a label conspicuously placed that states "Consult Vehicle Manufacturer Fuel Recommendations."
3. Retail Dispenser Labeling. All biomass-based diesel blends that are kept, offered or exposed for sale or sold at retail shall conspicuously display the product name and/or brand name being sold therefrom exactly as such name and/or brand name that is registered with the department.
- a. All biomass-based diesel blend dispensers BBD6-BBD80 shall be identified by the capital letter BBD followed by the numerical value representing the volume percentage of biodiesel fuel. The product shall be named BBDXX Biomass-based diesel fuel Blend.

Example: BBD10 Biomass-based Diesel Fuel Blend, BBD20 Biomass-based Diesel Fuel Blend, BBD60 Biomass-based Diesel Fuel Blend.

- b. The decal shall be 2" x 6" in size and shall be in a clear and conspicuous place in type of at least one-half (1/2) inch in height, and one-sixteenth (1/16) inch stroke (width of type).
  - c. When biomass-based diesel blends greater than 20% by volume are offered for sale, each side of the dispenser where fuel can be delivered shall have a label conspicuously placed that states "Consult Vehicle Manufacturer Fuel Recommendations."
4. Documentation for Dispenser Labeling Purposes. At the time of delivery of the fuel, the retailer shall be provided with a declaration of the volume percent biodiesel, biomass-based diesel, on an invoice, bill of lading, shipping paper, or other document. This documentation is for dispenser labeling purposes only; it shall be the responsibility of all potential blenders to determine the amount of biodiesel and/or biomass-based diesel, in the diesel fuel.
5. Documentation Content. Every shipment of B100 biodiesel and/or biodiesel blend, and or BBD100 biomass-based diesel, and/or biomass-based diesel blend, produced or imported for sale into Mississippi shall be accompanied by an invoice, bill of lading, shipping paper or other documentation. This document shall

identify the quantity, the name of the product, the particular grade or blend of the product, the name and address of the seller and the buyer, and the date and time of the sale. Except that:

- a. all biodiesel blends up to 5 volume percent shall be identified as “May contain up to 5% biodiesel”.
  - b. all biomass-based diesel blends up to 5 volume percent shall be identified as “May contain up to 5% biomass-based diesel”
6. In addition to the bill of lading, shipping paper, or other documentation of sale, all biodiesel B100 and/or biodiesel blend, containing more than 20 volume percent biodiesel; all biomass-based diesel BBD100 and/or biomass-based diesel blends, containing more than 20 volume percent biomass-based diesel; produced or imported for sale into Mississippi shall be accompanied by a certificate of analysis or a certificate of full specification analysis.
  7. Shipments of biodiesel B100 and/or biodiesel blends, biomass-based diesel and/or biomass-based diesel blends, containing more than 20 volume percent which do not have a certificate of analysis shall not be imported into Mississippi. Biodiesel B100 and/or biodiesel blends, biomass-based diesel BBD100 and/or biomass-based diesel blends, containing more than 20 volume percent produced in Mississippi which does not have a certificate of analysis or a certificate of full specification shall not be sold in Mississippi.

**(Adopted August 24, 2009.** Amended \_\_\_\_\_, 2011.)

113.04 Product Storage Identification. All filler pipes for petroleum bulk storage tanks and retail station storage tanks shall be identified by painting a sign on the intake pipe cap or within (6) inches thereof in lettering not less than (2) inches in height and not less than one-fourth (1/4) inch in width the following: for B100 biodiesel, the lettering “B100”; for biodiesel blends, the lettering “BXX” (XX indicating blend percentage); for BBD100 biomass-based diesel, the lettering “BBD100”; for biomass-based diesel blends, the lettering “BBDXX” (XX indicating blend percentage). Nothing in this section shall apply to bulk storage tanks located at marine or pipeline terminals, nor prohibit “color coding” in addition to the lettering, where desired.

**(Adopted August 24, 2009.** Amended \_\_\_\_\_, 2011.)

113.05 Condemned Product and Illegal Acts. A stop-sale order as provided for in Miss. Code Ann. 75-55-37 shall be issued to retail establishment dealers for biodiesel and all biodiesel blends and biomass based diesel and all biomass based diesel blends, failing to meet specifications or when a condition exists that causes product degradation.

**(Adopted August 24, 2009. Amended \_\_\_\_\_, 2011.)**

113.06 Product Registration:

1. Required Information. All producers, importers, wholesalers, and retailers of biodiesel (B100) and biodiesel fuel blends, biomass-based diesel (BBD100), and biomass-based diesel blends must register every product imported, sold or offered for sale with the Commissioner on forms prescribed by the Commissioner 30 days prior to when the registrant wishes to engage in sales. All producers or importers of biodiesel (B100) and biomass-based diesel (BBD100) are required to provide final proof of EPA registration as a producer of ASTM D 6751 quality B100 and BBD100. The registration shall include all of the following information required under the Mississippi Code 75-55-6.
2. Renewal. Registration is subject to annual renewal.
3. Re-registration. Re-registration is required 30 days prior to any changes in the required information.
4. Authority to Deny Registration. The Commissioner may decline to register any biodiesel B100 and/or biodiesel/petroleum diesel fuel blend, and/or any Biomass-Based diesel BBD100, and/or any Biomass-Based Diesel/petroleum diesel blend ~~any~~ that actually or by implication would deceive or tend to deceive a purchaser as to the identity or the quality of these products.
5. Transferability. The registration is not transferable.

**(Adopted August 24, 2009. Amended \_\_\_\_\_, 2011.)**

Source: *Miss. Code Ann. §75-55-3* (Rev. 2009).

**B100 and Biodiesel/Petroleum Diesel Fuel Blends, BBD100 and Biomass-Based Diesel/Petroleum Diesel Fuel Blends ~~Renewable Diesel and Co-Processed Renewable Diesel~~**

113.01 Definitions: For use in this regulation, the following terms and definitions apply. The word “shall” indicates mandatory requirements of this regulation.

1. Alcohol-means methanol, ethanol, isopropyl alcohol, n-propanol (n-propyl alcohol), and any form of butyl alcohol (butanol).
2. Biodiesel-means an oxygenated fuel comprised of mono-alkyl esters of long chain fatty acids from biologically derived oil and fats and shall be designated B100 that meet the current requirements for fuels and fuel additives under 40 CFR Part 79.
3. Biodiesel Blends-means a fuel comprised of a blend of biodiesel with petroleum-based diesel fuel in a specified ratio and shall be designated as BXX. In the abbreviation BXX, the XX represents the volume percentage of biodiesel fuel in the blend. For the purpose of meeting the fuel specifications in subsection 113.02, any fractional percentage of biodiesel will be rounded up to the next whole number. For instance, a B5.3 product will be required to meet the fuel specifications for B6.
4. Biomass-Based Diesel, also referred to as Other Renewable Diesel and Renewable Diesel means a conventional diesel fuel substitute produced from nonpetroleum renewable resources that meets the current requirements for fuels and fuel additives established by the Environmental Protection Agency under 42 U.S.C. 7545, except that the term does not include biodiesel as defined above, and shall be designated BBD100.
5. Biomass-Based Diesel Blend means a fuel comprised of a blend of biomass-based diesel with petroleum-based diesel fuel. Biomass-Based Diesel Blends shall be identified as BBDXX, where the XX represents the volume percentage of biomass based diesel fuel in the blend. For the purpose of meeting the fuel specifications in subsection 113.02, any fractional percentage of biomass based diesel blend will be rounded up to the next whole number. For instance, a BBD5.3 product will be required to meet the fuel specifications for BBD6.
- 4-6. Certificate of Analysis (COA) or Certificate of Full Specification Analysis-a document issued by the producer showing that biodiesel and biodiesel blends meet the requirements and specifications set forth in this regulation. The certificate must contain the date of certification and may not be older than 90 days from the date of issue.

The testing may be performed by either the producer, importer or an independent laboratory; but, it must be conducted per 300,000 gallons of produced biodiesel and biodiesel blend or every 90 days, whichever comes first. B21 through B99 certification must be conducted per 300,000 gallons of B21 through B99 produced or every 90 days, whichever comes first. A COA will not be required for a biodiesel blend if a producer has a current COA for biodiesel and petroleum diesel used to make the biodiesel blend.

~~5-7.~~ Cetane number-means a numerical measure of the ignition performance of a diesel fuel obtained by comparing it to reference fuels in a standardized engine test.

~~6.— Co-Processed Renewable Diesel— means renewable diesel that is produced when an oil company adds small amounts vegetable oils or animal fats to the traditional petroleum refining process when producing diesel fuel (co-processing) that meets the fuel specification requirements of ASTM D975 (petroleum diesel fuel) or ASTM D396 (home heating oil). Scheduled to be produced in existing oil refineries.~~

~~7- 8.~~ Distributor/Retailer/Marketer-means an entity engaged in the business of the distribution and/or sale of biodiesel and/or biodiesel blends and/or biomass-based diesel or biomass-based diesel blends of B1, BBD1, BBDB1 or greater.

~~8. Grade of product means B100 or BXX.~~

9. Producer/Blender-means the entity responsible to the first purchaser of biodiesel or biodiesel blend or biomass-based diesel or biomass-based diesel blend ~~or renewable diesel or renewable diesel blend or co-processed renewable diesel or co-processed renewable diesel blend~~ for that biodiesel or biodiesel blend or biomass-based diesel or biomass-based diesel blend ~~or renewable diesel or renewable diesel blend or co-processed renewable diesel or co-processed renewable diesel blend~~ meeting the specifications set forth in this regulation.

~~10.— Renewable Diesel— means fuel produced from biological material using a process called “thermal depolymerization” that meets the fuel specification requirements of ASTM D975 (petroleum diesel fuel) or ASTM D396 (home heating oil). Produced in free-standing facilities.~~

**(Adopted August 24, 2009. Amended \_\_\_\_\_, 2011.)**

113.02 Standard fuel specifications for diesel fuel used in biodiesel blends, biodiesel, and biodiesel blends and biomass-based diesel and biomass-based diesel blends.

1. Diesel Fuel. All petroleum diesel fuel used in biodiesel blends shall meet the requirements of the most recent version of ASTM D 975, “Standard Specification for Diesel Fuel Oils” prior to blending with biodiesel.
2. Biodiesel (B100). All biodiesel intended for sale or for blending with diesel shall meet the requirements listed in ~~Table 1~~ Table 1 prior to blending with petroleum diesel fuel of the most recent version of ASTM D6751, “Standard Specification for Biodiesel Fuel Blend Stock (B100) for Middle Distillate Fuels.”
3. Biodiesel Blends. Blends of biodiesel and petroleum diesel fuels shall meet the following requirements:
  - a. ~~Blends of B1 up to B5. The biodiesel is treated in these blends as a performance fuel oxygenate additive to petroleum diesel; therefore, these blends must~~ shall meet the specifications in ASTM D 975, “Standard Specification of Diesel Fuel Oils”.
  - b. ~~Blends of B6-B20. These blends shall meet the specification requirements of Table 2~~ the most recent version of ASTM D7467, “Standard Specification for Diesel Fuel Oil, Biodiesel Blend (B6 to B20)” and the most current requirements 26 CFR Part 48.
  - c. ~~Blends of B21-B80. These blends shall meet the specification requirements of Table 3~~ 1 and the most current requirements of 26 CFR Part 48.
  - d. ~~Blends of B81-B99. These blends shall meet all of the requirements and specifications of B100, as in Table 1. These blends will be considered as B100 fuel with additives that increase the performance of pure biodiesel.~~
5. Biomass-Based Diesel (BBD100). All biomass-based diesel intended for sale or for blending with diesel shall meet the requirements of the most recent version of ASTM D975, “Standard Specification for Diesel Fuel Oils.”
6. Biomass-Based Diesel Blends. Blends of Biomass-Based Diesel and petroleum diesel fuels shall meet the specifications in ASTM D975, “Standard Specification of Diesel Fuel Oils”.
4. ~~Renewable Diesel. Blends of Renewable Diesel and petroleum diesel fuels shall meet the specifications in ASTM D 975, “Standard Specification of Diesel Fuel Oils” or ASTM D 396 “Standard Specification of Home Heating Oil”.~~

5. ~~Co-Processed Renewable Diesel. Blends of Co-Processed Renewable Diesel and petroleum diesel fuels shall meet the specifications in ASTM D 975, “Standard Specification of Diesel Fuel Oils” or ASTM D 396 “Standard Specification of Home Heating Oil”.~~

~~(Adopted August 24, 2009. Amended \_\_\_\_\_, 2011.)~~

~~Table 1. Biodiesel specifications.~~

<b>Property</b>	<b>Test Method<sup>a</sup></b>	<b>Grade S15 Limits</b>	<b>Grade S500 Limits</b>	<b>Units</b>
Kinematic Viscosity, 104°F	ASTM D 445	1.9-6.0	1.9-6.0	mm <sup>2</sup> /s
Sulfated Ash	ASTM D 874	0.020 max	0.020 max	% mass
Sulfur	ASTM D 7220 ASTM D 4294	0.0015 max (15)	0.05 max (500)	% mass (ppm)
Copper-strip Corrosion	ASTM D 130	No. 3 max	No. 3 max	
Cetane Number	ASTM D 613	47 min	47 min	
Cloud Point	ASTM D 2500	Report	Report	°F
Cold Filter Plugging Point	ASTM D 6371	Report	Report	°F
Carbon Residue	ASTM D 4530	0.050 max	0.050 max	% mass
Acid Number	ASTM D 664	0.50 max	0.50 max	mg KOH/g
Free glycerin	ASTM D 6584	0.020	0.020	% mass
Total glycerin	ASTM D 6584	0.240	0.240	% mass
Phosphorous content	ASTM D 4951	0.001 max	0.001 max	% mass

Distillation Temperature, Atmospheric equivalent temperature. 90% recovered	ASTM D 1160	680 max	680 max	<sup>0</sup> F
Water and sediment	ASTM D 2709	0.050 max	0.050 max	% volume
Oxidation Stability	EN 14112	3	3	hours
Flash Point	ASTM D 93	266 <sup>b</sup> F min.	266 <sup>b</sup> F min	F min
Alcohol content	EN 14110	0.20 max	0.20 max	% mass
Calcium and Magnesium, Combined	EN 14538	5 max	5 max	ppm
Cold Soak filterability		360	360	seconds
Sodium and potassium	EN 14538	5 max	5 max	ppm

<sup>a</sup> The indicated test methods are the approved referee methods in Mississippi. Other acceptable substitute methods are accepted if approved by ASTM.

<sup>b</sup> If grade No. 1-D or blends of Grade No. 1-D and grade no.2-D diesel fuel are used, the minimum flash point shall be 100 °F.

**Table 2. Detailed Requirements for B6-B20 biodiesel blends.**

Property	Test Method <sup>a</sup>	B6-B20 S15	B6-B20 S500 <sup>b</sup>	B6-B20 S5000 <sup>c</sup>
Acid Number Mg KOH/g, max	ASTM D 664	0.3	0.3	0.3
Viscosity mm <sup>2</sup> /s at 104 °F	ASTM D 445	1.9-4.1 <sup>d</sup>	1.9-4.1 <sup>d</sup>	1.9-4.1 <sup>d</sup>
Flash Point, °F, min	ASTM D 93	125 <sup>f</sup>	125 <sup>f</sup>	125 <sup>f</sup>
Cloud Point	ASTM D	Record	Record	Record

°F, max	2500			
Cold Filter Plugging Point °F, max	ASTM D 6371	Record	Record	Record
Sulfur Content, (µg/g) max Mass % max	ASTM D 7039  ASTM D 4294	0.0015	0.05	0.50
Distillation Temperature °F, 90% evaporated max	ASTM D 86	649	649	649
Ramsbottom Carbon Residue on 10% Bottoms, mass % max	ASTM D 524	0.35	0.35	0.35
Cetane Number	ASTM D 613	40	40	40
Ash Content, mass % max	ASTM D 1319	35	35	35
Water and Sediments Volume %, max	ASTM D 2709	0.05	0.05	0.05
Copper, Corrosion, 3 hrs @ 122 °F, max	ASTM D 130	No. 3	No. 3	No. 3
Biodiesel content, % v/v	EN 14078	6-20	6-20	6-20
Oxidation Stability hrs, min	EN 14112	6	6	6
Ash Content, mass%, max	ASTM D 462	0.01	0.01	0.01

<sup>a</sup> The indicated test methods are the approved referee methods in Mississippi. Other acceptable substitute methods are accepted if approved by ASTM.

<sup>b</sup> Under United States of America regulations, if grade B20 S500 are sold for tax exempt purpose then, at or beyond terminal storage tanks, they are required by 26 CFR part 48 to contain the dye Solvent Red 164 at a

concentration spectrally equivalent to 3.9 lb per thousands barrels of the solid dye standard Solvent Red 164, or the tax must be collected.

<sup>e</sup>Under United States of America regulations, Grades B20 S5000 are required by 40 CFR part 8 to contain sufficient amount of the dye Red 164 so its presence is visually apparent. At or beyond terminal storage tanks, they are required by 26 CFR Part 48 to contain the dye Solvent Red 164 at a concentration spectrally equivalent to 3.9 lb per thousand barrels of the solid dye standard Solvent Red 26;

<sup>d</sup>If grade No. 1-D or blends of Grade No. 1-D and grade no.2-D diesel fuel are used, the minimum viscosity shall be 1.3 mm<sup>2</sup>/s.

<sup>f</sup>If grade No. 1-D or blends of Grade No. 1-D and grade no.2-D diesel fuel are used, the minimum flash point shall be 100 °F.

**Table 31 Detailed requirements Specifications for B21-B80 biodiesel blends.**

Property	Test Method <sup>a</sup>	B21 - B80 S15	B21 - B80 S500 <sup>b</sup>	B20 - B80 S5000 <sup>e</sup>
Acid Number, mg KOH/g, max	ASTM D 664	0.7	0.7	<del>0.7</del>
Kinematic Viscosity mm <sup>2</sup> /s at 104 °F	ASTM D 445	2.0-6.0	2.0-6.0	<del>2.0-6.0</del>
Flash Point °F, min	ASTM D 93	125 <sup>d</sup>	125 <sup>d</sup>	<del>125<sup>d</sup></del>
Alcohol Content % mass max	EN 14110	0.20	0.20	<del>0.20</del>
Oxidation Stability hrs, min	EN 14112	6	6	<del>6</del>
Copper Corrosion Max	ASTM D 130	No. 3	No. 3	<del>No. 3</del>
Water and Sediments	ASTM D 2709	0.05	0.05	<del>0.05</del>

Volume % max				
Cetane Number	ASTM D613	42	42	42
Cloud Point	ASTM D 2500	Report	Report	Report
Cold Filter Plugging Point	ASTM D 6371	Report	Report	Report
Sulfur Content, (µg/g) max Mass % max	ASTM D 7039 ASTM D 4294	15	0.05	0.50
Ramsbottom Carbon Residue on 10% Bottoms, mass % max	ASTM D 524	0.35	0.35	0.35
% Biodiesel	FTIR	21-80	21-80	21-80

<sup>a</sup> The indicated test methods are the approved referee methods in Mississippi. Other acceptable substitute methods are accepted if approved by ASTM.

<sup>b</sup> ~~Under United States of America regulations, if grade B20 S500 are sold for tax exempt purpose then, at or beyond terminal storage tanks, they are required by 26 CFR part 48 to contain the dye Solvent Red 164 at a concentration spectrally equivalent to 3.9 lb per thousands barrels of the solid dye standard Solvent Red 164, or the tax must be collected.~~

<sup>c</sup> ~~Under United States of America regulations, Grades B20 S5000 are required by 40 CFR part 8 to contain sufficient amount of the dye Red 164 so its presence is visually apparent. At or beyond terminal storage tanks, they are required by 26 CFR Part 48 to contain the dye Solvent Red 164 at a concentration spectrally equivalent to 3.9 lb per thousand barrels of the solid dye standard Solvent Red 26.~~

<sup>bd</sup> If grade No. 1-D or blends of Grade No. 1-D and grade no.2-D diesel fuel are used, the minimum flash point shall be 100 °F.

**(Adopted August 24, 2009. Amended \_\_\_\_\_, 2011.)**

113.03 Classification and Method of Sale of Biodiesel B100 and Biodiesel Blends, Biomass-Based Diesel BBD100 and Biomass-Based

Diesel Blends and Renewable Diesel Blends and Co-Processed Renewable Diesel Blends

1. Retail Dispenser Labeling. All B100 biodiesel, and/or BBD100 Biomass-Based Diesel that is kept, offered or exposed for sale or sold at retail shall conspicuously display the product name and/or brand name being sold therefrom exactly as such name and/or brand name that is registered with the department.
  - a. The product shall be named B100 Biodiesel Fuel and/or BBD100 Biomass-Based Diesel Fuel.
  - b. The decal shall be 2" x 6" in size and shall be in a clear and conspicuous place in type of at least one-half (1/2) inch in height, and one-sixteenth (1/16) inch stroke (width of type).  
Example: B100 Biodiesel Fuel, BBD100 Biomass-Based Diesel
2. Retail Dispenser Labeling. All biodiesel blends ~~and/or Renewable Diesel blends and/or Co-Processed Renewable Diesel~~ that are kept, offered or exposed for sale or sold at retail shall conspicuously display the product name and/or brand name being sold therefrom exactly as such name and/or brand name that is registered with the department.
  - a. All biodiesel blend dispensers up to B5 shall be identified "may contain up to 5% biodiesel". All letters shall be black with a contrasting background.
  - b. All biodiesel blend dispensers B6-B2080 shall be identified by the capital letter B followed by the numerical value representing the volume percentage of biodiesel fuel. The product shall be named BXX Biodiesel Fuel Blend.  
Example: B10 Biodiesel Fuel Blend, B20 Biodiesel Fuel Blend, B60 Biodiesel Fuel Blend, B80 Biodiesel Fuel Blend.
  - ~~c. The product shall be named BXX Biodiesel Fuel Blend.~~
  - c. The decal shall be 2" x 6" in size and shall be in a clear and conspicuous place in type of at least one-half (1/2) inch in height, and one-sixteenth (1/16) inch stroke (width of type).  
Example: ~~B6 Biodiesel Blend~~
  - d.e. When biodiesel blends greater than 20% by volume are offered ~~by~~ for sale, each side of the dispenser where fuel can be delivered shall have a label conspicuously placed that states "Consult Vehicle Manufacturer Fuel Recommendations."
  - ~~f. All retail pumps or delivery devices shall be labeled with the appropriate Federal Trade Commission Biodiesel Blend Posting.~~

3. Retail Dispenser Labeling. All biomass-based diesel blends that are kept, offered or exposed for sale or sold at retail shall conspicuously display the product name and/or brand name being sold therefrom exactly as such name and/or brand name that is registered with the department.
- a. All biomass-based diesel blend dispensers BBD6-BBD80 shall be identified by the capital letter BBD followed by the numerical value representing the volume percentage of biodiesel fuel. The product shall be named BBDXX Biomass-based diesel fuel Blend.  
Example: BBD10 Biomass-based Diesel Fuel Blend, BBD20 Biomass-based Diesel Fuel Blend, BBD60 Biomass-based Diesel Fuel Blend.
- b. The decal shall be 2" x 6" in size and shall be in a clear and conspicuous place in type of at least one-half (1/2) inch in height, and one-sixteenth (1/16) inch stroke (width of type.
- c. When biomass-based diesel blends greater than 20% by volume are offered for sale, each side of the dispenser where fuel can be delivered shall have a label conspicuously placed that states "Consult Vehicle Manufacturer Fuel Recommendations."
- ~~3. Retail Dispenser Labeling. All Renewable Diesel blends that are kept, offered or exposed for sale or sold at retail shall conspicuously display the product name and/or brand name being sold therefrom exactly as such name and/or brand name that is registered with the department.~~
- ~~a. The product shall be named RDXX Renewable Diesel Fuel.~~
- ~~b. The decal shall be 2" x 6" in size and shall be in a clear and conspicuous place in type of at least one-half (1/2) inch in height, and one-sixteenth (1/16) inch stroke (width of type).~~  
~~Example: RD10 Renewable Diesel Fuel~~
- ~~4. Retail Dispenser Labeling. All Co-Processed Renewable Diesel blends that are kept, offered or exposed for sale or sold at retail shall conspicuously display the product name and/or brand name being sold therefrom exactly as such name and/or brand name that is registered with the department.~~
- ~~a. The product shall be named CPRD10 Co-Processed Renewable Diesel Fuel.~~
- ~~b. The decal shall be 2" x 6" in size and shall be in a clear and conspicuous place in type of at least one-half (1/2) inch in height, and one-sixteenth (1/16) inch stroke (width of type).~~  
~~Example: CPRD10 Co-Processed Renewable Diesel Fuel~~

54. Documentation for Dispenser Labeling Purposes. At the time of delivery of the fuel, the retailer shall be provided with a declaration of the volume percent biodiesel, biomass-based diesel, ~~renewable diesel~~, ~~co-processed renewable diesel~~ on an invoice, bill of lading, shipping paper, or other document. This documentation is for dispenser labeling purposes only; it shall be the responsibility of all potential blenders to determine the amount of biodiesel and/or biomass-based diesel, in the diesel fuel.
65. Documentation Content. Every shipment of B100 biodiesel and/or biodiesel blend, and or BBD100 biomass-based diesel, and/or biomass-based diesel blend, ~~renewable diesel~~, ~~co-processed renewable diesel~~ produced or imported for sale into Mississippi shall be accompanied by an invoice, bill of lading, shipping paper or other documentation. This document shall identify the quantity, the name of the product, the particular grade or blend of the product, the name and address of the seller and the buyer, and the date and time of the sale. Except that:
- a. all biodiesel blends up to 5 volume percent shall be identified as “May contain up to 5% biodiesel”.
  - b. all biomass-based diesel blends up to 5 volume percent shall be identified as “May contain up to 5% biomass-based diesel”
76. In addition to the bill of lading, shipping paper, or other documentation of sale, all biodiesel B100 and/or biodiesel blend, containing more than 20 volume percent biodiesel; all biomass-based diesel BBD100 and/or biomass-based diesel blends, containing more than 20 volume percent biomass-based diesel; renewable diesel co-processed renewable diesel produced or imported for sale into Mississippi shall be accompanied by a certificate of analysis or a certificate of full specification analysis.
87. Shipments of biodiesel B100 and/or biodiesel blends, biomass-based diesel and/or biomass-based diesel blends, ~~renewable diesel~~, ~~co-processed renewable diesel~~ containing more than 20 volume percent which do not have a certificate of analysis shall not be imported into Mississippi. Biodiesel B100 and/or biodiesel blends, biomass-based diesel BBD100 and/or biomass-based diesel blends, and/or renewable diesel, and/or co-processed renewable diesel containing more than 20 volume percent produced in Mississippi which does not have a certificate of analysis or a certificate of full specification shall not be sold in Mississippi.

**(Adopted August 24, 2009. Amended \_\_\_\_\_, 2011.)**

113.04 Product Storage Identification. All filler pipes for petroleum bulk storage tanks and retail station storage tanks shall be identified by painting a sign on the intake pipe cap or within (6) inches thereof in lettering not less than (2) inches in height and not less than one-fourth (1/4) inch in width the following: for B100 biodiesel, the lettering “B100”; for biodiesel blends, the lettering “BXX” (XX indicating blend percentage); for BBD100 biomass-based diesel, the lettering “BBD100”; for biomass-based diesel blends, the lettering “BBDXX” (XX indicating blend percentage). ~~for renewable diesel blends, the lettering “RDXX” (XX indicating blend percentage); for co-processed renewable diesel the lettering “CPRDXX” (XX indicating blend percentage).~~ Nothing in this section shall apply to bulk storage tanks located at marine or pipeline terminals, nor prohibit “color coding” in addition to the lettering, where desired.

**(Adopted August 24, 2009. Amended \_\_\_\_\_, 2011.)**

113.05 Condemned Product and Illegal Acts. A stop-sale order as provided for in Miss. Code Ann. 75-55-37 shall be issued to retail establishment dealers for biodiesel and all biodiesel blends and biomass based diesel and all biomass based diesel blends, failing to meet specifications or when a condition exists that causes product degradation.

**(Adopted August 24, 2009. Amended \_\_\_\_\_, 2011.)**

113.06 Product Registration:

1. Required Information. All producers, importers, wholesalers, and retailers of biodiesel (B100) and biodiesel fuel blends, biomass-based diesel (BBD100), and biomass-based diesel blends ~~and renewable diesel blends and co-produced renewable diesel blends~~ must register every product imported, sold or offered for sale with the Commissioner on forms prescribed by the Commissioner 30 days prior to when the registrant wishes to engage in sales. All producers or importers of biodiesel (B100) and biomass-based diesel (BBD100) are required to provide final proof of EPA registration as a producer of ASTM D 6751 quality B100 and BBD100. The registration shall include all of the following information required under the Mississippi Code 75-55-6.
2. Renewal. Registration is subject to annual renewal.

3. Re-registration. Re-registration is required 30 days prior to any changes in the required information.

4. Authority to Deny Registration. The Commissioner may decline to register any biodiesel B100 and/or biodiesel/petroleum diesel fuel blend, and/or any Biomass-Based diesel BBD100, and/or any Biomass-Based Diesel/petroleum diesel blend any Renewable diesel, and/or any Co-Processed Renewable Diesel that actually or by implication would deceive or tend to deceive a purchaser as to the identity or the quality of these products.

5. Transferability. The registration is not transferable.

**(Adopted August 24, 2009. Amended \_\_\_\_\_, 2011.)**

Source: *Miss. Code Ann.* §75-55-3 (Rev. 2009).