ALABAMA DEPARTMENT OF AGRICULTURE AND INDUSTRIES AGRICULTURAL CHEMISTRY ADMINISTRATIVE CODE

CHAPTER 80-1-18 STANDARDS FOR DIESEL FUEL

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80-1-18-.01 Purpose.

The purpose of this Chapter is to provide standards for diesel fuels so that their sale, storage and use in Alabama are satisfactory and efficient for the purpose under which the products are sold.
Author: Charles H. Barnes
Statutory Authority: Code of Ala. 1975, §8-17-81.
History: Filed April 19, 1982. **Amended:** Filed July 30, 1982. Reformatted: Filed June 19, 1986.

80-1-18-.02 Applicability.

The standards set forth in this Chapter shall be applicable for all diesel fuels as defined by Code of Ala. 1975, §8-17-80(2), which are sold, used or offered for sale in Alabama.
Author: Charles H. Barnes
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80-1-18-.03 Testing Methods To Conform To ASTM With Exceptions.

All testing methods and specifications for diesel fuels shall be determined in accordance with the test methods presented in the latest version of the A**merican Society For Testing and Materials Standards** hereinafter designated as ASTM and those specifications which are published by the United States Department of Commerce as

required by Code of Ala. 1975, §8-17-81(a)(1), except as amended by Rule 80-1-18-.04 below.
Author: Charles H. Barnes
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80-1-18-.04 Specifications For Diesel Fuels.

All diesel fuels as defined above under the provisions of Code of Ala. 1975, §8-17-80(2) as Diesel Fuel No. 1 and Diesel Fuel No. 2, hereinafter designated as 1-D and 2-D respectively, shall conform to the following tests and specifications:

(a) Flash point, (Method ASTM D-93) shall be:

1. 100° F for 1-D.

(b) 125° F for 2-D.

(2) Cloud point (Method ASTM D-2500 and D-975) for 1-D and 2-D shall be as follows: The cloud point, or wax appearance point, for cold weather operation is specified at 6° C above the 10th percentile minimum ambient temperatures for the area in which the fuel will be used. For Alabama the 10th percentile minimum temperatures are: September 13° C, October 4° C, November -3° C, December -6° C, January -7° C, February -3° C, March -2° C.

(3) Water and sediment, (Method ASTM-1796) for 1-D and 2-D shall be 0.05% by volume, maximum.

(4) Carbon residue on 10% residuum, (Ramsbottom Method ASTM D-524), the maximum allowance shall be:

(a) 0.15% for 1-D.

(b) 0.35% for 2-D.

(5) Ash, (Method ASTM D-482), maximum percent allowed by weight shall be 0.01% for 1-D and 2-D.

(6) Distillation temperatures, 90% point shall be as follows:

(a) For 1-D (Method ASTM D-86), 550° F maximum.

(b) For 2-D (Method ASTM D-86), 540° F minimum and 675° F maximum.

(7) Viscosity shall conform to one of the two methods listed below:

(a) Kinematic viscosity, at 40° C (Method ASTM D-445) for 1-D, 1.3 minimum and 2.4 maximum cSt.

(b) Kinematic viscosity, at 100° F (Method ASTM D-445) for 2-D, 2.0 minimum and 5.8 maximum cSt.

(8) The percent of sulfur, by weight, (Method ASTM D-127, D-2622, D-3120 and D-1552) for 1-D and 2-D shall be 0.50% maximum.

(9) Copper strip corrosion (Method ASTM D-130) for 1-D and 2-D shall be No. 3 maximum.

(10) The cetane index for both 1-D and 2-D shall be 40 minimum, (calculated) (ASTM Method D-976).

Author: Charles H. Barnes
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