



Designation: D 6751 – 02

Standard Specification for Biodiesel Fuel (B100) Blend Stock for Distillate Fuels¹

This standard is issued under the fixed designation D 6751; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This specification covers low sulfur biodiesel (B100) for use as a blend component with diesel fuel oils defined by Specification D 975 Grades 1-D, 2-D, and low sulfur 1-D and 2-D.

1.2 Biodiesel may be blended with fuel oils whose sulfur or aromatic levels are outside Specification D 975 Grades 1-D, 2-D, and low sulfur 1-D and 2-D, provided the finished mixture meets pertinent national and local specifications and requirements for these properties.

1.3 This specification, unless otherwise provided by agreement between the purchaser and the supplier, prescribes the required properties of biodiesel fuel at the time and place of delivery.

1.4 Nothing in this specification shall preclude observance of federal, state, or local regulations which may be more restrictive.

NOTE 1—The generation and dissipation of static electricity can create problems in the handling of distillate fuel oils with which biodiesel may be blended. For more information on the subject, see Guide D 4865.

2. Referenced Documents

2.1 ASTM Standards:

- D 93 Test Methods for Flash-Point by Pensky-Martens Closed Cup Tester²
- D 130 Test Method for Detection of Copper Corrosion from Petroleum Products by the Copper Strip Tarnish Test²
- D 189 Test Method for Conradson Carbon Residue of Petroleum Products²
- D 445 Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (the Calculation of Dynamic Viscosity)²
- D 524 Test Method for Ramsbottom Carbon Residue of Petroleum Products²
- D 613 Test Method for Cetane Number of Diesel Fuel Oil³
- D 664 Test Method for Acid Number of Petroleum Products by Potentiometric Titration²

- D 874 Test Method for Sulfated Ash from Lubricating Oils and Additives²
- D 974 Test Method for Acid and Base Number by Color-Indicator Titration²
- D 975 Specification for Diesel Fuel Oils²
- D 976 Test Methods for Calculated Cetane Index of Distillate Fuels²
- D 1160 Test Method for Distillation of Petroleum Products at Reduced Pressure²
- D 1266 Test Method for Sulfur in Petroleum Products (Lamp Method)²
- D 1796 Test Method for Water and Sediment in Fuel Oils by the Centrifuge Method (Laboratory Procedure)²
- D 2274 Test Method for Oxidation Stability of Distillate Fuel Oil (Accelerated Method)²
- D 2500 Test Method for Cloud Point of Petroleum Products²
- D 2622 Test Method for Sulfur in Petroleum Products by Wavelength Dispersive X-ray Fluorescence Spectrometry⁴
- D 2709 Test Method for Water and Sediment in Middle Distillate Fuels by Centrifuge⁴
- D 2880 Specification for Gas Turbine Fuel Oils⁴
- D 3117 Test Method for Wax Appearance Point of Distillate Fuels⁴
- D 3120 Test Method for Trace Quantities of Sulfur in Light Liquid Petroleum Hydrocarbons by Oxidative Microcoulometry⁴
- D 3242 Test Method for Acidity in Aviation Turbine Fuel⁴
- D 3828 Test Method for Flash Point by Small Scale Closed Tester⁴
- D 4057 Practice for Manual Sampling of Petroleum and Petroleum Products⁴
- D 4177 Practice for Automatic Sampling of Petroleum and Petroleum Products⁴
- D 4294 Test Method for Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry⁴
- D 4530 Test Method for Determination of Carbon Residue (Micro Method)⁴
- D 4737 Test Method for Calculated Cetane Index by Four Variable Equation⁴
- D 4865 Guide for Generation and Dissipation of Static

¹ This specification is under the jurisdiction of ASTM Committee D02 on Petroleum Products and Lubricants and is the direct responsibility of Subcommittee D02.01 on Diesel, Non-Aviation Gas Turbine and Marine Fuels.

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² *Annual Book of ASTM Standards*, Vol 05.01.

³ *Annual Book of ASTM Standards*, Vol 05.05.

⁴ *Annual Book of ASTM Standards*, Vol 05.02.