**ASTM Standards for Denatured Fuel Ethanol and Ethanol Flex Fuels**

- **D0086**: Test Method for Distillation of Petroleum Products and Liquid Fuels at Atmospheric Pressure
- **D0287**: Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method)
- **D0381**: Test Method for Gum Content in Fuels by Jet Evaporation
- **D0471**: Test Method for Rubber Property Effect of Liquids
- **D0975**: Specification for Diesel Fuel
- **D1266**: Test Method for Sulfur in Petroleum Products (Lamp Method)
- **D1298**: Test Method for Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method
- **D1613**: Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer, and Related Products
- **D1688**: Test Methods for Copper in Water
- **D2622**: Test Method for Sulfur in Petroleum Products by Wavelength Dispersive X-ray Fluorescence Spectrometry
- **D2973**: Test Method for Total Nitrogen in Peat Materials
- **D3120**: Test Method for Trace Quantities of Sulfur in Light Liquid Petroleum Hydrocarbons by Oxidative Microcoulometry
- **D4052**: Test Method for Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
- **D4057**: Practice for Manual Sampling of Petroleum and Petroleum Products
- **D4175**: Terminology Relating to Petroleum Products, Liquid Fuels, and Lubricants
- **D4176**: Test Method for Free Water and Particulate Contamination in Distillate Fuels (Visual Inspection Procedures)
- **D4177**: Practice for Automatic Sampling of Petroleum and Petroleum Products
- **D4306**: Practice for Aviation Fuel Sample Containers for Tests Affected by Trace Contamination
- **D4814**: Specification for Automotive Spark-Ignition Engine Fuel
- **D4953**: Test Method for Vapor Pressure of Gasoline and Gasoline-Oxygenate Blends (Dry Method)
- **D5191**: Test Method for Vapor Pressure of Petroleum Products and Liquid Fuels (Mini Method)
- **D5191**: Test Method for Determination of Total Sulfur in Light Hydrocarbons, Spark Ignition Engine Fuel, Diesel Engine Fuel, and Engine Oil by Ultraviolet Fluorescence
- **D5453**: Test Method for Vapor Pressure of Petroleum Products and Liquid Fuels (Mini Method Atmospheric)
- **D5482**: Test Method for Determination of Ethanol and Methanol Content in Fuels Containing Greater than 20% Ethanol by Gas Chromatography
Test Method for Determination of Benzene, Toluene, Ethylbenzene, p/m-Xylene, o-Xylene, C9 and Heavier Aromatics, and Total Aromatics in Finished Gasoline by Gas Chromatography

Specification for Methanol Fuel Blends (M51M85) for Methanol-Capable Automotive Spark-Ignition Engines

Specification for Ethanol Fuel Blends for Flexible-Fuel Automotive Spark-Ignition Engines

Practice for Sampling and Handling of Fuels for Volatility Measurement

Practice for Mixing and Handling of Liquid Samples of Petroleum and Petroleum Products

Test Method for Determination of Vapor Pressure (VPX) of Petroleum Products, Hydrocarbons, and Hydrocarbon-Oxygenate Mixtures (Triple Expansion Method)

Test Method for Determination of pH of Denatured Fuel Ethanol and Ethanol Fuel Blends

Guide for Microbial Contamination in Fuels and Fuel Systems

Test Method for Determination of Olefin Content of Gasolines by Supercritical-Fluid Chromatography


Specification for Biodiesel Fuel Blend Stock (B100) for Middle Distillate Fuels


Test Method for Determination of the Boiling Range Distribution of Gasoline by Wide-Bore Capillary Gas Chromatography

Test Method for Sulfur in Automotive, Heating, and Jet Fuels by Monochromatic Energy Dispersive X-ray Fluorescence Spectrometry

Test Method for Determination of Olefin Content in Denatured Ethanol by Supercritical Fluid Chromatography

Test Method for Evaluation of the Ability of Engine Oil to Emulsify Water and Simulated Ed85 Fuel

Test Method for Determination of Benzene and Total Aromatics in Denatured Fuel Ethanol by Gas Chromatography
D7667  Test Method for Determination of Corrosiveness to Silver by Automotive Spark-Ignition Engine Fuel
Thin Silver Strip Method

D7671  Test Method for Corrosiveness to Silver by Automotive Spark-Ignition Engine Fuel
Silver Strip Method

D7717  Practice for Preparing Volumetric Blends of Denatured Fuel Ethanol and Gasoline Blendstocks for Laboratory Analysis

D7757  Test Method for Silicon in Gasoline and Related Products by Monochromatic Wavelength Dispersive X-ray Fluorescence Spectrometry

D7794  Practice for Blending Mid-Level Ethanol Fuel Blends for Flexible-Fuel Vehicles with Automotive Spark-Ignition Engines

D7795  Test Method for Acidity in Ethanol and Ethanol Blends by Titration

D7875  Test Method for Determination of Butanol and Acetone Content of Butanol for Blending with Gasoline by Gas Chromatography

D8011  Specification for Natural Gasoline as a Blendstock in Ethanol Fuel Blends or as a Denaturant for Fuel Ethanol

D8076  Specification for 100 Research Octane Number Test Fuel for Automotive Spark-Ignition Engines

D8181  Specification for Microemulsion Blendstock for Preparing Microemulsion Test Fuel Oils

D8235  Specification for Ethyl Tertiary-Butyl Ether (ETBE) for Blending with Gasolines for Use as Automotive Spark-Ignition Engine Fuel

E0029  Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications

E0203  Test Method for Water Using Volumetric Karl Fischer Titration

E0300  Practice for Sampling Industrial Chemicals

E1064  Test Method for Water in Organic Liquids by Coulometric Karl Fischer Titration

F0852  Specification for Portable Gasoline, Kerosene, and Diesel Containers for Consumer Use

F2874  Specification for One Time Use Portable Emergency Fuel Containers (PEFC) for Use by Consumers