



Designation: D6985 – 04a

Standard Specification for Middle Distillate Fuel Oil—Military Marine Applications¹

This standard is issued under the fixed designation D6985; 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 a 100 % middle distillate fuel oil with no residual fuel oil contamination for use in military marine applications (non-aviation gas turbine engines, compression ignition/diesel engines, and other non-automotive applications), and emergency generator applications (military or commercial).

1.2 This specification, unless otherwise provided by agreement between the purchaser and the supplier, prescribes the required properties of middle distillate fuel at the time and place of delivery. Nothing in this specification shall preclude observance of federal, state, or local regulations that may be more restrictive.

1.3 During handling and use of all middle distillate fuels, the generation and dissipation of static electricity can create fire and explosion hazards. For more information on this subject see Guide [D4865](#).

1.4 The values stated in SI units are to be regarded as the standard.

1.5 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory requirements prior to use.*

2. Referenced Documents

2.1 ASTM Standards:²

- [D56](#) Test Method for Flash Point by Tag Closed Cup Tester
- [D86](#) Test Method for Distillation of Petroleum Products at Atmospheric Pressure
- [D93](#) Test Methods for Flash Point by Pensky-Martens Closed Cup Tester

¹ This specification is under the jurisdiction of ASTM Committee D02 on Petroleum Products and Lubricants and is the direct responsibility of Subcommittee D02.E0 on Burner, Diesel, Non-Aviation Gas Turbine, and Marine Fuels.

Current edition approved Nov. 1, 2004. Published November 2004. Originally approved in 2004. Last previous edition approved in 2004 as D6985-04. DOI: 10.1520/D6985-04A.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

- [D129](#) Test Method for Sulfur in Petroleum Products (General Bomb Method)
- [D130](#) Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test
- [D445](#) Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)
- [D482](#) Test Method for Ash from Petroleum Products
- [D524](#) Test Method for Ramsbottom Carbon Residue of Petroleum Products
- [D613](#) Test Method for Cetane Number of Diesel Fuel Oil
- [D975](#) Specification for Diesel Fuel Oils
- [D976](#) Test Method for Calculated Cetane Index of Distillate Fuels
- [D1266](#) Test Method for Sulfur in Petroleum Products (Lamp Method)
- [D1298](#) Test Method for Density, Relative Density (Specific Gravity), or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method
- [D1319](#) Test Method for Hydrocarbon Types in Liquid Petroleum Products by Fluorescent Indicator Adsorption
- [D1552](#) Test Method for Sulfur in Petroleum Products (High-Temperature Method)
- [D2500](#) Test Method for Cloud Point of Petroleum Products
- [D2622](#) Test Method for Sulfur in Petroleum Products by Wavelength Dispersive X-ray Fluorescence Spectrometry
- [D2709](#) Test Method for Water and Sediment in Middle Distillate Fuels by Centrifuge
- [D3117](#) Test Method for Wax Appearance Point of Distillate Fuels
- [D3828](#) Test Methods for Flash Point by Small Scale Closed Cup Tester
- [D4052](#) Test Method for Density and Relative Density of Liquids by Digital Density Meter
- [D4057](#) Practice for Manual Sampling of Petroleum and Petroleum Products
- [D4177](#) Practice for Automatic Sampling of Petroleum and Petroleum Products

*A Summary of Changes section appears at the end of this standard.