



Standard Test Methods for Coated Fabrics Used for Oil Spill Control and Storage¹

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1. Scope

1.1 These test methods cover laboratory-conducted performance tests for coated fabrics used in spill control barriers or in temporary storage devices.

1.2 *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 limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

- D 86 Test Method for Distillation of Petroleum Products²
- D 93 Test Methods for Flash Point by Pensky-Martens Closed Cup Tester²
- D 97 Test Method for Pour Point of Petroleum Products²
- D 129 Test Method for Sulfur in Petroleum Products (General Bomb Method)²
- D 130 Test Method for Detection of Copper Corrosion from Petroleum Products by the Copper Strip Tarnish Test²
- D 287 Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method)²
- D 445 Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (And the Calculation of Dynamic Viscosity)²
- D 482 Test Method for Ash from Petroleum Products²
- D 524 Test Method for Ramsbottom Carbon Residue of Petroleum Products²
- D 543 Test Method for Resistance of Plastics to Chemical Reagents³
- D 613 Test Method for Cetane Number of Diesel Fuel Oil⁴
- D 664 Test Method for Acid Number of Petroleum Products by Potentiometric Titration⁴
- D 751 Test Methods for Coated Fabrics⁵

D 975 Specification for Diesel Fuel Oils²

D 1149 Test Method for Rubber Deterioration—Surface Ozone Cracking in a Chamber⁶

D 1266 Test Method for Sulfur in Petroleum Products (Lamp Method)²

D 1298 Practice for Density, Relative Density (Specific Gravity), or a PI Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method²

D 1319 Test Method for Hydrocarbon Types in Liquid Petroleum Products by Fluorescent Indicator Adsorption²

D 1796 Test Method for Water and Sediment in Fuel Oils by the Centrifuge Method (Laboratory Procedure)²

D 2425 Test Method for Hydrocarbon Types in Middle Distillates by Mass Spectrometry²

D 2500 Test Method for Cloud Point of Petroleum Oils²

D 2644 Tolerances for Yarns Spun on the Woolen System⁷

D 3117 Test Method for Wax Appearance Point of Distillate Fuels⁸

D 4157 Test Method for Abrasion Resistance of Textile Fabrics (Oscillatory Cylinder Method)⁹

G 26 Practice for Operating Light-Exposure Apparatus (Xenon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials¹⁰

2.2 Federal Standard:

Fed. Std. No. 191A Textile Test Methods¹¹

2.3 Military Specification:

MIL-T-6396 E Tank, Fuel, Oil, Water-Alcohol, Coolant Fluid, Non-Self-Sealing, Removable, Internal¹¹

3. Significance and Use

3.1 Membrane materials are subjected to these tests in order to provide data that reasonably relate to membrane response under the actual conditions of spill control barrier or storage device use.

3.2 Although these test methods provide data on individual performance of membrane materials, all combinations of actual

¹ These test methods are under the jurisdiction of ASTM Committee F-20 on Hazardous Substances and Oil Spill Response and are the direct responsibility of Subcommittee F20.11 on Control.

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

³ *Annual Book of ASTM Standards*, Vol 08.01.

⁴ *Annual Book of ASTM Standards*, Vol 05.04.

⁵ *Annual Book of ASTM Standards*, Vol 09.02.

⁶ *Annual Book of ASTM Standards*, Vol 09.01.

⁷ *Annual Book of ASTM Standards*, Vol 07.01.

⁸ *Annual Book of ASTM Standards*, Vol 05.02.

⁹ *Annual Book of ASTM Standards*, Vol 07.02.

¹⁰ *Annual Book of ASTM Standards*, Vol 14.02.

¹¹ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.