



Standard Test Method for Measuring Mass Per Unit Area of Erosion Control Blankets¹

This standard is issued under the fixed designation D 6475; 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 test method can be used as an index test to determine the mass per unit area of all erosion control blankets (ECBs).

1.2 This test method requires several hours for proper drying of the specimen in an oven at high temperature.

1.3 All observed and calculated values shall conform to the guidelines for significant digits and rounding established in Practice D 6026.

1.3.1 The method used to specify collection, calculation, or recording of data in this standard is not directly related to the accuracy to which the data can be applied in design or in other uses, or both. Application of the results obtained using this standard is beyond its scope.

1.4 The values stated in SI units shall be regarded as standard. The values stated in parentheses are provided for information only.

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 limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

D 123 Terminology Relating to Geotextiles²

D 653 Terminology Relating to Soil, Rock, and Contained Fluids³

D 1776 Practice for Conditioning Textiles for Testing²

D 3740 Practice for Minimum Requirements for Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction³

D 4354 Practice for Sampling Geosynthetics for Testing⁴

D 4439 Terminology for Geosynthetics⁴

D 5261 Test Method for Measuring Mass per Unit Area of Geotextiles⁴

D 6026 Practice for Using Significant Digits in Calculating

and Reporting Geotechnical Test Data⁵

E 145 Specification for Gravity-Convection and Forced-Ventilation Ovens⁶

2.2 *Erosion Control Technology Council Standard:*⁷

Technical Guidance Manual, Terminology and Index Testing Procedures for Rolled Erosion Control Products

3. Terminology

3.1 Definitions:

3.1.1 *erosion control blanket, ECB, n*—a degradable material, composed primarily of processed natural organic materials, manufactured or fabricated into rolls designed to reduce soil erosion and assist in the growth, establishment, and protection of vegetation.

3.1.2 *erosion control net, ECN, n*—a planar woven natural fiber or extruded geosynthetic mesh used as a component in the manufacture of ECBs.

3.1.3 *index test, n*—a test procedure that may be used to establish an order for a set of specimens with respect to the property of interest.

3.1.4 *lot, n*—a unit of production, or a group of other units or packages, taken for sampling or statistical examination, having one or more common properties and being readily separable from other similar units.

3.1.5 *natural, adj*—describes a class of various genera of fibers, of animal or vegetable origin.

3.1.6 *polymer, n*—a chemical compound or mixture of compounds formed by polymerization and consisting essentially of repeating structural units.

3.1.7 *sample, n*—a portion of material that is taken for testing or recording purposes and used in the laboratory as a source of individual specimens.

3.1.8 *temporary degradable, n*—an erosion control blanket composed of biologically, photochemically, or otherwise degradable materials that temporarily reduce soil erosion and enhances the establishment of vegetation.

4. Summary of Test Method

4.1 The mass per unit area of an ECB is determined by weighing test specimens of known dimensions cut from various locations over the full width of the laboratory sample.

¹ This test method is under the jurisdiction of ASTM Committee D18 on Soil and Rock and is the direct responsibility of Subcommittee D18.25 on Erosion and Sediment Control.

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² *Annual Book of ASTM Standards*, Vol 07.01.

³ *Annual Book of ASTM Standards*, Vol 04.08.

⁴ *Annual Book of ASTM Standards*, Vol 04.13.

⁵ *Annual Book of ASTM Standards*, Vol 04.09.

⁶ *Annual Book of ASTM Standards*, Vol 14.02.

⁷ Available from ISO Case Postale 56, CH-1211, Geneva 20, Switzerland.