



Designation: **D7367–07** **D7367 – 14**

Standard Test Method for Determining Water Holding Capacity of Fiber Mulches for Hydraulic Planting¹

This standard is issued under the fixed designation D7367; 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 quantitative test method determines water holding capacity of fiber mulches, including wood, paper, and agriculturally derived and blended fiber mulches used for hydraulic planting.

1.2 The purpose of this test method is to provide a means of evaluating water holding capacity in fiber mulches. Product specimen is conditioned and weighed, saturated and re-weighed to determine water holding capacity. The water holding capacity is expressed as a percentage of increased weight after saturation. There are no known limitations to this test method. No range of concentrations/values have been determined. This test method is preferably performed in a laboratory.

1.3 Units—The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only. No other units of measurement are included in this standard.

1.4 *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:*²

D653 Terminology Relating to Soil, Rock, and Contained Fluids

E11 Specification for Woven Wire Test Sieve Cloth and Test Sieves

3. Terminology

3.1 *Definitions*—For common definitions of terms in this standard refer to Terminology D653.

4. Summary of Test Method

4.1 Product specimen is conditioned and weighed, saturated and re-weighed to determine water holding capacity. The water holding capacity is expressed as a percentage of increased weight after saturation.

5. Significance and Use

5.1 The meaning of the test is related to the manufacturing and end use of the material, to determine characteristics of products. The water holding capacity of hydraulically applied mulches for hydraulic planting correlates directly with enhanced slurry and spray patterns by providing better soil/slurry binding ability and rate of seed germination.

6. Apparatus

6.1 203.2 mm (8 in.) diameter #8 diameter 2.36 mm sieve.

6.2 203.2 mm (8 in.)-diameter sieve pan.

6.3 Large mixing bowl 5.5 L \pm (10 Pt \pm) capacity.

6.4 Electronic gram scale or balance scale with a minimum of 0.1 g resolution.

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 Technology.

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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.