

Designation: D5779/D5779M - 14

# Standard Test Method for Field Determination of Rapid Specific Gravity of Rock and Manmade Materials for Erosion Control<sup>1</sup>

This standard is issued under the fixed designation D5779/D5779/D. 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 parenthrees indicates the year of last respectively. A superscript epision (e) indicates an editorial change since the last revision or reapproval.

## 1. Scope\*

1.1 This test method covers the determination of the rapid specific gravity of rock or man-made materials for erosion control.

1.2 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

1.3 All observed and calculated values shall conform to the guidelines for significant digits and rounding established in Practice D6026, unless superseded by this standard.

1.3.1 For purposes of comparing measured or calculated value(s) with specified limits, the measured or calculated value(s) shall be rounded to the nearest decimal or significant digits in the specified limits.

1.3.2 The procedures used to specify how data are collected/ recorded or calculated, in this standard are regarded as the industry standard. In addition, they are representative of the significant digits that generally should be retained. The procedures used do not consider material variation, purpose for obtaining the data, special purpose studies, or any considerations for the user's objectives; and it is common practice to increase or reduce significant digits of reported data to be commensurate with these considerations. It is beyond the scope of this standard to consider significant digits used in analytical methods for engineering design.

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
- C670 Practice for Preparing Precision and Bias Statements for Test Methods for Construction Materials
- D653 Terminology Relating to Soil, Rock, and Contained Fluids
- D3740 Practice for Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction
- D4753 Guide for Evaluating, Selecting, and Specifying Balances and Standard Masses for Use in Soil, Rock, and Construction Materials Testing
- D4992 Practice for Evaluation of Rock to be Used for Erosion Control
- D6026 Practice for Using Significant Digits in Geotechnical Data
- D6473 Test Method For Specific Gravity And Absorption of Rock For Erosion Control

### 3. Terminology

 Definitions—For definitions of common technical terms in this standard, refer to Terminology D653.

3.2 Definitions of Terms Specific to This Standard:

3.2.1 rapid specific gravity—the ratio of the mass in air of a unit volume of relatively impermeable rock or man-made material, to the mass of an equal volume of water measured under a variety of temperatures.

## 4. Summary of Test Method

4.1 An air-dried specimen (block, chunk, or slab) of rock or manmade material, such as concrete or masonry rubble from paving and building demolition, is weighed in air and then weighed again while immersed in water. Using the masses, the field rapid specific gravity is calculated. The determined specific gravity can then be used to determine a mass per unit volume.

<sup>&</sup>lt;sup>1</sup> This test method is under the jurisdiction of ASTM Committee D18 on Soil and Bock and is the direct responsibility of Subcommittee D18.17 on Rock for Erosion Countait.

Current edition approved Jan. 15, 2014. Published February 2014. Originally approved in 1995. Last previous edition approved in 2008 as DS779 – 08°1. DOI: 10.1520/DS779. DS77904-14.

<sup>&</sup>lt;sup>3</sup> For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@ssim.org. For Asmual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

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# Table of Contents Soil Rock I D420 D5779 Astm Stand

- 1. Understanding the eBook Soil Rock I D420 D5779 Astm Stand
  - The Rise of Digital Reading Soil Rock I D420 D5779 Astm Stand
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Soil Rock I D420 D5779 Astm Stand
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Soil Rock I D420 D5779 Astm Stand
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Soil Rock I D420 D5779 Astm Stand
  - Personalized Recommendations
  - Soil Rock I D420 D5779 Astm Stand User Reviews and Ratings
  - Soil Rock I D420 D5779 Astm Stand and Bestseller Lists

- 5. Accessing Soil Rock I D420 D5779 Astm Stand Free and Paid eBooks
  - Soil Rock I D420 D5779 Astm Stand Public Domain eBooks
  - Soil Rock I D420 D5779 Astm Stand eBook Subscription Services
  - Soil Rock I D420 D5779 Astm Stand Budget-Friendly Options
- 6. Navigating Soil Rock I D420 D5779 Astm Stand eBook Formats
  - o ePub, PDF, MOBI, and More
  - Soil Rock I D420 D5779 Astm Stand Compatibility with Devices
  - Soil Rock I D420 D5779 Astm Stand Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Soil Rock I D420 D5779 Astm Stand
  - Highlighting and Note-Taking Soil Rock I D420 D5779 Astm Stand
  - Interactive Elements Soil Rock I D420 D5779 Astm Stand
- 8. Staying Engaged with Soil Rock I D420 D5779 Astm Stand
  - o Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Soil Rock I D420 D5779 Astm Stand
- 9. Balancing eBooks and Physical Books Soil Rock I D420 D5779 Astm Stand
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Soil Rock I D420 D5779 Astm Stand
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Soil Rock I D420 D5779 Astm Stand
  - Setting Reading Goals Soil Rock I D420 D5779 Astm Stand
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Soil Rock I D420 D5779 Astm Stand
  - Fact-Checking eBook Content of Soil Rock I D420 D5779 Astm Stand
  - o Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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