

## ASTM Volume 04.09, April 2025

D7263-21 Standard Test Methods for Laboratory Determination of Density and Unit Weight of Soil Specimens

D7928-21e1 Standard Test Method for Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis

D7764-20 Standard Practice for Pre-Installation Acceptance Testing of Vibrating Wire Piezometers

D7299-20 Standard Practice for Verifying Performance of a Vertical Inclinometer Probe

D4380-20 Standard Test Method for Determining Density of Construction Slurries

D5879/D5879M-18 Standard Practice for Surface Site Characterization for On-Site Septic Systems

D6001/D6001M-20 Standard Guide for Direct-Push Groundwater Sampling for Environmental Site Characterization

D5981/D5981M-18 Standard Guide for Calibrating a Groundwater Flow Model Application

D6780/D6780M-19 Standard Test Methods for Water Content and Density of Soil In situ by Time Domain Reflectometry (TDR)

D7762-18e1 Standard Practice for Design of Stabilization of Soil and Soil-Like Materials with Self-Cementing Fly Ash

D8326-21 Standard Practice for Measurement of the Kinetic Energy of Simulated Rainfall

D6758-18e1 Standard Test Method for Measuring Stiffness and Apparent Modulus of Soil and Soil-Aggregate In-Place by Electro-Mechanical Method

D6103/D6103M-17e1 Standard Test Method for Flow Consistency of Controlled Low Strength Material (CLSM)

D8281/D8281M-21 Standard Test Method for Determining the Presence of Expanding Clays in Rock for Erosion Control Using Ethylene Glycol

D6572-21 Standard Test Methods for Determining Dispersive Characteristics of Clayey Soils by the Crumb Test

D6393/D6393M-21 Standard Test Method for Bulk Solids Characterization by Carr Indices

D7698-21 Standard Test Method for In-Place Estimation of Density and Water Content of Soil and Aggregate by Correlation with Complex Impedance Method

D7759/D7759M-21 Standard Guide for Nuclear Surface Moisture and Density Gauge Calibration

D6230-21e1 Standard Practices for Monitoring Earth or Structural Movement Using Inclinedometers

D6026-21 Standard Practice for Using Significant Digits and Data Records in Geotechnical Data

D7830/D7830M-14(2021)e1 Standard Test Method for In-Place Density (Unit Weight) and Water Content of Soil Using an Electromagnetic Soil Density Gauge

D7070-16 Standard Test Methods for Creep of Rock Core Under Constant Stress and Temperature

D6312-17 Standard Guide for Developing Appropriate Statistical Approaches for Groundwater Detection Monitoring Programs at Waste Disposal Facilities

D7045-17 Standard Guide for Optimization of Groundwater Monitoring Constituents for Detection Monitoring Programs for Waste Disposal Facilities

D6836-16 Standard Test Methods for Determination of the Soil Water Characteristic Curve for Desorption Using Hanging Column, Pressure Extractor, Chilled Mirror Hygrometer, or Centrifuge

D6170-17 Standard Guide for Selecting a Groundwater Modeling Code

D5971/D5971M-16 Standard Practice for Sampling Freshly Mixed Controlled Low-Strength Material

D6760-16 Standard Test Method for Integrity Testing of Concrete Deep Foundations by Ultrasonic Crosshole Testing

D6032/D6032M-17 Standard Test Method for Determining Rock Quality Designation (RQD) of Rock Core

D7758-17 Standard Practice for Passive Soil Gas Sampling in the Vadose Zone for Source Identification, Spatial Variability Assessment, Monitoring, and Vapor Intrusion Evaluations

D7986-17a Standard Practice for Preparing Specimens of Hydraulic Erosion Control Products for Index Property Testing

D8106-17 Standard Test Methods for Determining the Oil Sorption Capacity of Organophilic Clay

D8359-21 Standard Test Method for Determining the In Situ Rock Deformation Modulus and Other Associated Rock Properties Using a Flexible Volumetric Dilatometer

D8122-21 Standard Test Method for Determining Mass per Unit Area of Geohazard Nettings

D7351/D7351M-21 Standard Test Method for Determination of Sediment Retention Device (SRD) Effectiveness in Sheet Flow Applications

D6430-18 Standard Guide for Using the Gravity Method for Subsurface Site Characterization

D6067/D6067M-17 Standard Practice for Using the Electronic Piezocone Penetrometer Tests for Environmental Site Characterization and Estimation of Hydraulic Conductivity

D6431-18 Standard Guide for Using the Direct Current Resistivity Method for Subsurface Site Characterization

D7503-18 Standard Test Method for Measuring the Exchange Complex and Cation Exchange Capacity of Inorganic Fine-Grained Soils

D8107-18 Standard Practice for Determining Sediment Pond Skimmer Flow Rate

D8169/D8169M-18 Standard Test Methods for Deep Foundations Under Bi-Directional Static Axial Compressive Load

D7760-18 Standard Test Method for Measurement of Hydraulic Conductivity of Materials Derived from Scrap Tires Using a Rigid Wall Permeameter

D7765-18a Standard Practice for Use of Foundry Sand in Structural Fill and Embankments

D7099-04(2018) Standard Terminology Relating to Frozen Soil and Rock

D5883-18 Standard Guide for Use of Rotary Kiln Produced Expanded Shale, Clay or Slate (ESCS) as a Mineral Amendment in Topsoil Used for Landscaping and Related Purposes

D7128-18 Standard Guide for Using the Seismic-Reflection Method for Shallow Subsurface Investigation

D5924-18 Standard Guide for Selection of Simulation Approaches in Geostatistical Site Investigations

D8012-18 Standard Practice for Reclamation of Scrap and Waste Asphalt Shingles to Produce Reclaimed Asphalt Shingles (RAS) for Use in Transportation Applications

D7352-18 Standard Practice for Volatile Contaminant Logging Using a Membrane Interface Probe (MIP) in Unconsolidated Formations with Direct Push Methods

D8152-18 Standard Practice for Measuring Field Infiltration Rate and Calculating Field Hydraulic Conductivity Using the Modified Philip Dunne Infiltrometer Test

D7015/D7015M-18 Standard Practices for Obtaining Intact Block (Cubical and Cylindrical) Samples of Soils

D6684-18 Standard Specification for Materials and Manufacture of Articulating Concrete Block (ACB) Systems

D7300-18 Standard Test Method for Laboratory Determination of Strength Properties of Frozen Soil at a Constant Rate of Strain

D5995-18 Standard Guide for Environmental Site Investigation in Cold Regions

D6235-18 Standard Practice for Expedited Site Characterization of Vadose Zone and Groundwater Contamination at Hazardous Waste Contaminated Sites

D7664-10(2018)e1 Standard Test Methods for Measurement of Hydraulic Conductivity of Unsaturated Soils

D5923-18 Standard Guide for Selection of Kriging Methods in Geostatistical Site Investigations

D5922-18 Standard Guide for Analysis, Interpretation, and Modeling of Spatial Variation in Geostatistical Site Investigations

D8232-18 Standard Test Procedures for Measuring the Inclination of Deep Foundations

D8053-18 Standard Guide for Data Management and Reporting Associated with Oil and Gas Development Involving Hydraulic Fracturing

D6274-18 Standard Guide for Conducting Borehole Geophysical Logging - Gamma

D7400/D7400M-19 Standard Test Methods for Downhole Seismic Testing

D7383-19 Standard Test Methods for Axial Rapid Load (Compressive Force Pulse) Testing of Deep Foundations

D6167-19 Standard Guide for Conducting Borehole Geophysical Logging: Mechanical Caliper

D6941-19 Standard Practice for Measuring Fluidization Segregation Tendencies of Powders

D6683-19 Standard Test Method for Measuring Bulk Density Values of Powders and Other Bulk Solids as Function of Compressive Stress

D6459-19 Standard Test Method for Determination of Rolled Erosion Control Product (RECP) Performance in Protecting Hillslopes from Rainfall-Induced Erosion

D5979-96(2019)e1 Standard Guide for Conceptualization and Characterization of Groundwater Systems

D6035/D6035M-19 Standard Test Methods for Determining the Effect of Freeze-Thaw on Hydraulic Conductivity of Compacted or Intact Soil Specimens Using a Flexible Wall Permeameter

D8295-19 Standard Test Method for Determination of Shear Wave Velocity and Initial Shear Modulus in Soil Specimens using Bender Elements

D7481-18 Standard Test Methods for Determining Loose and Tapped Bulk Densities of Powders using a Graduated Cylinder

D8296-19 Standard Test Method for Consolidated Undrained Cyclic Direct Simple Shear Test under Constant Volume with Load Control or Displacement Control

D6598-19 Standard Guide for Installing and Operating Settlement Points for Monitoring Vertical Deformations

D6432-19 Standard Guide for Using the Surface Ground Penetrating Radar Method for Subsurface Investigation

D7626-19e1 Standard Test Methods for Determining the Organic Treat Loading of Organophilic Clay

D8299-19 Standard Guide for Using Metal Ratios in Soils to Distinguish Between Anthropogenic and Natural Beryllium

D7181-20 Standard Test Method for Consolidated Drained Triaxial Compression Test for Soils

D6820-20 Standard Guide for Use of the Time Domain Electromagnetic Method for Geophysical Subsurface Site Investigation

D6940/D6940M-20 Standard Practice for Measuring Sifting Segregation Tendencies of Bulk Solids

D6391-11(2020) Standard Test Method for Field Measurement of Hydraulic Conductivity Using Borehole Infiltration

D7929-20 Standard Guide for Selection of Passive Techniques for Sampling Groundwater Monitoring Wells

D7699/D7699M-20 Standard Practice for Minimum Geospatial Data for Abandoned Mine Land Problem Areas, Planning Units, Keyword Features, and Project Sites

D7100-11(2020) Standard Test Method for Hydraulic Conductivity Compatibility Testing of Soils with Aqueous Solutions

D7243-11(2020) Standard Guide for Measuring the Saturated Hydraulic Conductivity of Paper Industry Sludges

D8151-19e1 Standard Practice for Obtaining Rainfall Runoff from Unvegetated Rolled and Hydraulic Erosion Control Products (RECPs and HECs) for Acute Ecotoxicity Testing

D8408/D8408M-21 Standard Guide for Development of Long-Term Monitoring Plans for Vapor Mitigation Systems

D8199-20 Standard Test Method for Determining the Specific Strength of Hydraulically Applied Fiber Matrix Products for Erosion Control

D6286/D6286M-20 Standard Guide for Selection of Drilling and Direct Push Methods for Geotechnical and Environmental Subsurface Site Characterization

D7382-20 Standard Test Methods for Determination of Maximum Dry Unit Weight of Granular Soils Using a Vibrating Hammer

D6639-18 Standard Guide for Using the Frequency Domain Electromagnetic Method for Subsurface Site Characterizations

D6475-17 Standard Test Method for Measuring Mass per Unit Area of Erosion Control Blankets

D5878-19 Standard Guides for Using Rock-Mass Classification Systems for Engineering Purposes

D6462-19 Standard Practice for Silt Fence Installation and Maintenance

D6276-19 Standard Test Method for Using pH to Estimate the Soil-Lime Proportion Requirement for Soil Stabilization

D5912-20 Standard Practice for (Analytical Procedure) Determining Hydraulic Conductivity of an Unconfined Aquifer by Overdamped Well Response to Instantaneous Change in Head (Slug)

D6910/D6910M-19 Standard Test Method for Marsh Funnel Viscosity of Construction Slurries

D5549-19 Standard Guide for Contents of Geostatistical Site Investigation Report

D6034-20 Standard Practice for (Analytical Procedure) Determining the Efficiency of a Production Well in a Confined Aquifer from a Constant Rate Pumping Test

D5881-20 Standard Practice for (Analytical Procedures) Determining Transmissivity of Confined Nonleaky Aquifers by Critically Damped Well Response to Instantaneous Change in Head (Slug)

D6028/D6028M-20 Standard Practice for (Analytical Procedure) Determining Hydraulic Properties of a Confined Aquifer Taking into Consideration Storage of Water in Leaky Confining Beds by Modified Hantush Method

D8170-20 Standard Guide for Using Disposable Handheld Soil Core Samplers for the Collection and Storage of Soil for Volatile Organic Analysis

D6029/D6029M-20 Standard Practice for (Analytical Procedures) Determining Hydraulic Properties of a Confined Aquifer and a Leaky Confining Bed with Negligible Storage by the Hantush-Jacob Method

D5920/D5920M-20 Standard Practice for (Analytical Procedure) Tests of Anisotropic Unconfined Aquifers by Neuman Method

D7780-20 Standard Practice for Minimum Geospatial Data for Representing Coal Mining Features

D6913/D6913M-17 Standard Test Methods for Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis

D6771-21 Standard Practice for Low-Flow Purging and Sampling Used for Groundwater Monitoring

D8081-17(2021)e1 Standard Guide for Theory and Principles for Obtaining Reliable and Accurate Bulk Solids Flow Data Using a Direct Shear Cell

D6092-21 Standard Practice for Specifying Standard Sizes of Stone for Erosion Control

D6825-21 Standard Guide for Placement of Riprap Revetments

D8381/D8381M-21 Standard Test Methods for Measuring the Depth of Deep Foundations by Parallel Seismic Logging

D7380/D7380M-21 Standard Test Method for Soil Compaction Determination at Shallow Depths Using 2.3-kg [5-lbm] Dynamic Cone Penetrometer

D6169/D6169M-21 Standard Guide for Selection of Subsurface Soil and Rock Sampling Devices for Environmental and Geotechnical Investigations

D6467-21e1 Standard Test Method for Torsional Ring Shear Test to Determine Drained Residual Shear Strength of Fine-Grained Soils

D7608-18e1 Standard Test Method for Torsional Ring Shear Test to Measure Drained Fully Softened Shear Strength and Stress Dependent Strength Envelope of Fine-Grained Soils

D8123-22 Standard Test Methods for Measuring the Opening Size of Geohazard Nettings

D8262-22 Standard Test Method for Determining the pH of Granular Material for Use in Embankments, Subgrades, and Retaining Wall Backfil

D8038-16(2022)e1 Standard Practice for Reclamation of Recycled Aggregate Base (RAB) Material

D8460-22 Standard Test Method for Quantification of Volatile Organic Compounds Using Proton Transfer Reaction Mass Spectrometry

D7014-22 Standard Practice for Installation of Double-Twisted Wire Mesh Gabions and Revet Mattresses

D7367/D7367M-22 Standard Test Method for Determining Water Holding Capacity of Fiber Mulches for Hydraulic Planting

D8153-22 Standard Test Method for Determination of Soil Water Contents Using a Dielectric Permittivity Probe

D4219-22 Standard Test Method for Short-Term Unconfined Compressive Strength Index of Chemically Grouted Soils

D7625-22 Standard Test Method for Laboratory Determination of Abrasiveness of Rock Using the CERCHAR Abrasiveness Index Method

D4381/D4381M-22 Standard Test Method for Sand Content by Volume of Construction Slurries

D6711/D6711M-22 Standard Practice for Specifying Rock to Fill Gabions, Revet Mattresses, and Gabion Mattresses

D8200-22 Standard Practice for Creating a Correlation to Compare Particle Size Distribution Results of Proppants by Dynamic Imaging Analyzers and Sieves

D7560-22 Standard Test Method for Determination of Fiber Length Percentages in Hydraulic Erosion Control Products (HECPs)

D6773-22 Standard Test Method for Bulk Solids Using Schulze Ring Shear Tester

D6128-22 Standard Test Method for Shear Testing of Bulk Solids Using the Jenike Shear Tester

D7208-23 Standard Test Method for Determination of Temporary Ditch Check Performance in Protecting Earthen Channels from Stormwater-Induced Erosion

D5903-96(2023) Standard Guide for Planning and Preparing for a Groundwater Sampling Event

D6429-23 Standard Guide for Selecting Surface Geophysical Methods

D8459-23 Standard Test Methods for Detecting Water Soluble Sulfates in Construction Soils

D8438/D8438M-23 Standard Test Methods for Use of Hyperspectral Sensors for Soil Nutrient Analysis of Ground Based Samples

D6826-23 Standard Specification for Sprayed Slurries, Foams and Indigenous Materials Used As Alternative Daily Cover for Municipal Solid Waste Landfills

D8167/D8167M-23e1 Standard Test Method for In-Place Bulk Density of Soil and Soil-Aggregate by a Low-Activity Nuclear Method (Shallow Depth)

D6938-23 Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)

D7012-23 Standard Test Methods for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperatures

D8263/D8263M-23 Standard Test Method for Determining the Change in Mass of Rolled Erosion Control Products When Submerged in Water

D7262-23 Standard Test Methods for Estimating the Permanganate Natural Oxidant Demand of Soil and Aquifer Solids

D7276-16(2023) Standard Guide for Analysis and Interpretation of Test Data for Articulating Concrete Block (ACB) Revetment Systems in Open Channel Flow

D7277-16(2023) Standard Test Method for Performance Testing of Articulating Concrete Block (ACB) Revetment Systems for Hydraulic Stability in Open Channel Flow

D6089-19(2023) Standard Guide for Documenting a Groundwater Sampling Event

D6452-18(2023) Standard Guide for Purging Methods for Wells Used for Ground Water Quality Investigations

D6517-18(2023) Standard Guide for Field Preservation of Ground Water Samples

D8297/D8297M-23 Standard Test Method for Determination of Erosion Control Products (ECP) Performance in Protecting Slopes from Sequential Rainfall-Induced Erosion Using a Tilted Bed Slope

D8298/D8298M-23 Standard Test Method for Determination of Erosion Control Products (ECP) Performance in Protecting Slopes from Continuous Rainfall-Induced Erosion Using a Tilted Bed Slope

D6519/D6519M-23 Standard Practice for Sampling of Soil Using the Hydraulically Operated Stationary Piston Sampler

D8512-23 Standard Practice for Preliminary Karst Terrain Assessment for Site Development

D7322/D7322M-23 Standard Test Method for Determination of Erosion Control Product (ECP) Ability to Encourage Seed Germination and Plant Growth Under Bench-Scale Conditions

D6914/D6914M-16(2024) Standard Practice for Sonic Drilling for Site Characterization and the Installation of Subsurface Monitoring Devices

D5978/D5978M-16(2024) Standard Guide for Maintenance and Rehabilitation of Groundwater Monitoring Wells

D5980-16(2024) Standard Guide for Selection and Documentation of Existing Wells for Use in Environmental Site Characterization and Monitoring

D6031/D6031M-24 Standard Test Method for Logging In Situ Moisture Content and Density of Soil and Rock by the Nuclear Method in Horizontal, Slanted, and Vertical Access Tubes

D6027/D6027M-24 Standard Practice for Calibration/Verification of Linear Displacement Transducers for Geotechnical Purposes

D6564/D6564M-17(2024) Standard Guide for Field Filtration of Groundwater Samples

D6460-24 Standard Test Method for Determination of Rolled Erosion Control Product (RECP) Performance in Protecting Earthen Channels from Stormwater-Induced Erosion

D6473/D6473M-24 Standard Test Method for Specific Gravity and Absorption of Rock for Erosion Control

D8327-24 Standard Test Method for Measuring the Permeability of Powders as a Function of Consolidation Using the Freeman Technology FT4 Powder Rheometer

D8006-24 Standard Guide for Sampling and Analysis of Residential and Commercial Water Supply Wells in Areas of Exploration and Production (E&P) Operations

D7069-24 Standard Guide for Field Quality Assurance in a Groundwater Sampling Event

D8328-24 Standard Test Method for Dynamic Testing of Powders Using the Freeman Technology FT4 Powder Rheometer

D7891-24 Standard Test Method for Shear Testing of Powders Using the Freeman Technology FT4 Powder Rheometer Shear Cell

D6724/D6724M-16(2024)e1 Standard Guide for Installation of Direct Push Groundwater Monitoring Wells

D6725/D6725M-16(2024)e1 Standard Practice for Direct Push Installation of Prepacked Screen Monitoring Wells in Unconsolidated Aquifers

D8249-19(2024) Standard Practice for Use of Rotary Kiln Produced Porous Ceramic as a Mineral Amendment in Topsoil Used for Landscaping and Related Purposes

D7663-12(2024) Standard Practice for Active Soil Gas Sampling in the Vadose Zone for Vapor Intrusion Evaluations

D8121/D8121M-23 Standard Test Method for Approximating the Shear Strength of Cohesive Soils by the Handheld Vane Shear Device

D8202-18(2024) Standard Specification for Hydraulically Applied 100% Wheat Straw Fiber Mulches

D8198-18(2024) Standard Specification for Hydraulically Applied 100 % Wood Fiber Mulches

D8082-18(2024)e1 Standard Specification for Elemental Impurity Limits in Erosion Control Products used for Land Application

D6528-24 Standard Test Method for Consolidated Undrained Direct Simple Shear Testing of Fine-Grained Soils

D5982\_D5982M-24 Standard Test Method for Determining Cement Content of Fresh Soil-Cement (Heat of Neutralization Method)

D8037/D8037M-24 Standard Practice for Direct Push Hydraulic Logging for Profiling Variations of Permeability in Soils

D7047-23e1 Standard Test Method for Swell Volume of Plantago Insularis (Ovata, Psyllium)

D6024/D6024M-24 Standard Test Method for Ball Drop on Controlled Low Strength Material (CLSM) to Determine Suitability for Load Application

D7013/D7013M-24 Standard Guide for Calibration Facility Setup for Nuclear Surface Gauges