



ASTM International Committee D18 on Soil and Rock

Established: 1937

Number of Members: 900+

Number of Standards: 350+

The standards are available in: Volumes 04.08 & 04.09 in the *Annual Book of ASTM Standards*

Global Participation: 40 Countries represented

Meetings: D18 meets twice each year, in January and June

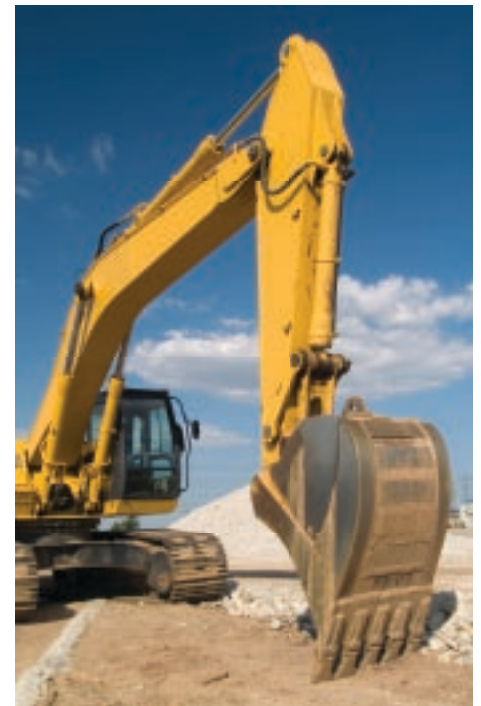
SCOPE: The promotion of knowledge; stimulation of research; the development of specifications and methods for sampling and testing; and the development of terminology, definitions, and practices relating to the physical and chemical properties and behavior of soil, rock, and the fluids contained therein. Included are the physical and chemical properties and behavior of: soil-like materials and fluids occupying the pore spaces, fissures and other voids in soil and rock insofar as such fluids may influence the properties, behavior and uses of the soil and rock materials. Excluded are the uses for rock for building stone and for constituent materials in portland cement and bituminous paving and structures coming under the jurisdiction of other Committees.

The area of interest of the Committee is the testing of soil, rock and such materials that may be intimately associated with soil and rock. It will be the policy of this Committee to avoid, insofar as possible, dealing with methods of design of engineering structures and all those features of general practice in the use of soil and rock which may not involve the development of standards. It will, however, be considered within the scope of the Committee's work to promote by every desirable means the close cooperation of other organizations and committees whose field of endeavor is closely allied to that of soil and rock testing.

PUBLICATIONS: Geotechnical Testing Journal

KEY DOCUMENTS:

- D698 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12 400 ft-lbf/ft³ (600 kN-m/m³))
- D1557 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³ (2,700 kN-m/m³))
- D4318 Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils
- D5092 Standard Practice for Design and Installation of Ground Water Monitoring Wells
- D7045 Standard Guide for Optimization of Ground Water Monitoring Constituents for Detection Monitoring Programs for RCRA Waste Disposal Facilities



Visit the ASTM

Committee D18 Webpage:

<http://www.astm.org.d18mailing.htm>

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LIST OF D18 SUBCOMMITTEES:

D18.01	Surface and Subsurface Characterization	D18.15.01	Admixtures used in Soil Stabilization
D18.01.01	Site Characterization for Environmental Purposes	D18.17	Rock for Erosion Control
D18.01.02	Geophysics	D18.19	Frozen Soils and Rock
D18.01.03	Geospatial Technology	D18.21	Ground Water and Vadose Zone Investigations
D18.02	Sampling and Related Field Testing for Soil Evaluations	D18.21.01	Direct Push Sampling
D18.02.01	In-Place Shear Test	D18.21.02	Vadose Zone Monitoring
D18.02.02	Diamond Core Drilling	D18.21.03	Well Design, Maintenance & Construction
D18.02.03	Auger Sampling	D18.21.04	Ground Water Sample Collection and Handling
D18.02.04	Sampling of Soils	D18.21.05	Hydrogeologic Properties, Modeling, and Data Analysis
D18.02.05	Cone Penetrometer	D18.21.06	Design of Ground Water Monitoring Networks
D18.02.06	Pressuremeter	D18.21.07	Ground Water and Vadose Zone Remediation Technologies
D18.02.07	Package, Transport and Storage of Soil Samples	D18.21.08	Terminology
D18.02.08	Energy Measurements	D18.22	Soil as a Medium for Plant Growth
D18.02.09	Flat Dilatometer	D18.23	Field Instrumentation
D18.02.10	Flat Plate Dilatometer	D18.24	Characterization and Handling of Powders and Bulk Solids
D18.02.12	Borehole	D18.25	Erosion and Sediment Control Technology
D18.02.14	Erodability of Soils	D18.25.01	Mulches and Tackifiers
D18.03	Texture, Plasticity and Density Characteristics of Soils	D18.25.02	Erosion Control Blankets
D18.03.01	Particle Size and Specific Gravity	D18.25.03	Turf Reinforcement Matting
D18.03.02	Plasticity	D18.25.04	Articulating Concrete Block Revetments
D18.03.03	Density	D18.25.05	Gabions & Mattresses
D18.04	Hydrologic Properties and Hydraulic Barriers	D18.25.07	Fabric-Formed Concrete Revetments
D18.05	Strength and Compressibility of Soils	D18.25.08	Sediment Control
D18.06	Physical-Chemical Interactions of Soil and Rock	D18.25.09	Terminology
D18.07	Identification and Classification of Soils	D18.25.10	Bioengineering
D18.08	Special and Construction Control Tests	D18.25.11	Tackifier and Soil Binders
D18.08.01	Nuclear Methods	D18.80	Planning
D18.08.03	New Methods for Construction Control	D18.90	Executive
D18.08.04	Field Testing	D18.90.01	Public Relations (Communicator)
D18.08.05	Precision and Bias	D18.91	Standards Development and Review
D18.09	Cyclic and Dynamic Properties of Soils	D18.91.02	Standards Preparation Manual
D18.09.01	Resonant Column	D18.92	Geotechnical Testing Journal
D18.09.02	Cyclic Testing	D18.93	Terminology for Soil, Rock and Contained Fluids
D18.09.03	Specimen Preparation	D18.94	Education and Training
D18.09.04	In Situ Testing	D18.95	Information Retrieval and Data Automation
D18.09.05	Centrifuge Methods	D18.96	Symposia
D18.09.06	Resilient Modulus	D18.97	Awards
D18.09.07	Terminology and Definitions	D18.98	Hogentogler Award
D18.11	Deep Foundations	D18.99	Quality Control
D18.12	Rock Mechanics		
D18.14	Geotechnics of Sustainable Construction		
D18.15	Stabilization With Admixtures		