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# ASTM International Technical Committee D18 on Soil and Rock

## 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.

## Key Documents

- D698 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12 400 ft-lbf/ft<sup>3</sup> (600 kN-m/m<sup>3</sup>))
- D1557 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft<sup>3</sup> (2,700 kN-m/m<sup>3</sup>))
- 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



## Quick Facts

**Established** 1937

**Number of Members** 1,070+

**Number of Standards** 350+

**Global Participation**

49 Countries represented

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

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

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## D18 List of Subcommittees

D18.01	Surface and Subsurface Characterization	D18.25	Erosion and Sediment Control Technology
D18.02	Sampling and Related Field Testing for Soil Evaluations	D18.26	Hydraulic Fracturing
D18.03	Texture, Plasticity and Density Characteristics of Soils	D18.80	Planning
D18.04	Hydrologic Properties and Hydraulic Barriers	D18.90	Executive
D18.05	Strength and Compressibility of Soils	D18.91	Standards Development and Review
D18.06	Physical-Chemical Interactions of Soil and Rock	D18.92	Geotechnical Testing Journal
D18.07	Identification and Classification of Soils	D18.93	Terminology for Soil, Rock and Contained Fluids
D18.08	Special and Construction Control Tests	D18.94	Education and Training
D18.09	Cyclic and Dynamic Properties of Soils	D18.95	Information Retrieval and Data Automation
D18.11	Deep Foundations	D18.96	Symposia
D18.12	Rock Mechanics	D18.97	Awards
D18.14	Geotechnics of Sustainable Construction	D18.98	Hogentogler Award
D18.15	Stabilization With Admixtures	D18.99	Quality Control
D18.17	Rock for Erosion Control		
D18.19	Frozen Soils and Rock		
D18.21	Groundwater and Vadose Zone Investigations		
D18.22	Medium for Plant Growth		
D18.23	Field Instrumentation		
D18.24	Characterization and Handling of Powders and Bulk Solids		