

**RADISE certified or validated test methods for SOIL  
(CMEC/ AMRL/ USACE/ FDOT)**

SOIL	
TEST METHOD	DESCRIPTION
<b>D75</b>	Sampling Aggregates
<b>D421 T87</b>	Dry Preparation of Soil Samples for Particle-Size Analysis and Determination of Soil Constants
<b>D422 T88</b>	Particle-Size Analysis of Soils
<b>D558 T134</b>	Moisture-Density (Unit Weight) Relations of Soil-Cement Mixtures
<b>D698 T99</b>	Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft <sup>3</sup> (600 kN-m/m <sup>3</sup> ))
<b>D854 T100</b>	Specific Gravity of Soil Solids by Water Pycnometer
<b>D1140 T</b>	Amount of Material in Soils Finer Than the No. 200 (75-um) Sieve
<b>D1556</b>	Density and Unit Weight of Soil in Place by the Sand-Cone Method
<b>D1557 T180</b>	Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft <sup>3</sup> (2,700 kN-m/m <sup>3</sup> ))
<b>D2166 T208</b>	Unconfined Compressive Strength of Cohesive Soil
<b>D2168</b>	Calibration of Laboratory Mechanical-Rammer Soil Compactors
<b>D2216 T265</b>	Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
<b>D2434 T215</b>	Permeability of Granular Soils (Constant Head)
<b>D2435 T216</b>	One-Dimensional Consolidation Properties of Soils Using Incremental Loading
<b>D2487</b>	Standard Classification of Soils for Engineering Purposes (Unified Soil Classification System)
<b>D2488</b>	Description and Identification of Soils (Visual-Manual Procedure)
<b>D2850 T296</b>	Unconsolidated-Undrained Triaxial Compression Test on Cohesive Soils
<b>D2922</b>	Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth)
<b>D3017</b>	Water Content of Soil and Rock in Place by Nuclear Methods (Shallow Depth)
<b>D3740</b>	Minimum Requirements for Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction
<b>D4220</b>	Preserving and Transporting Soil Samples
<b>D4318 T89 &amp; T90</b>	Liquid Limit, Plastic Limit, and Plasticity Index of Soils
<b>D4643</b>	Determination of Water (Moisture) Content of Soil by the Microwave Oven Method
<b>D4767 T297</b>	Consolidated Undrained Triaxial Compression Test for Cohesive Soils



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<b>D4832</b>	Preparation and Testing of Controlled Low Strength Material (CLSM) Test Cylinders
<b>D4944 T217</b>	Field Determination of Water (Moisture) Content of Soil by the Calcium Carbide Gas Pressure Tester
<b>D5084</b>	Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter
<b>D6913</b>	Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis
<b>D6938 T310</b>	In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)
<b>E329</b>	Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection
<b>FM 5-515</b>	Limerock Bearing Ratio