



**TIMELY
ENGINEERING
SOIL
TESTS, LLC**

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T.E.S.T. CAPABILITIES

T.E.S.T. is accredited by AASHTO and validated by USACE for Quality Standards AASHTO R18, ASTM D3740 and E329 for Soil Testing

METHOD/PROCEDURE (Methods accredited by AASHTO and validated by US Army corp. of Engineers are bolded)	Method NAME
ASTM C29/T19	Bulk Density and Voids in Aggregate
ASTM C40 / T21	Organic Impurities in Fine Aggregates for Concrete
ASTM C88/T104	Soundness of Aggregate by Use of Sodium Sulfate (5 cycles), each additional cycle- extra \$50.00
ASTM C88/T104	Soundness of Aggregate by Use of Magnesium Sulfate (5 cycles), each additional cycle- extra \$50.00
ASTM C117 / T11	Material Finer than No. 200 (0.075 mm) Sieve
ASTM C117 / T11/C136	Material Finer than No. 200 (0.075 mm) Sieve with separation on #4 Sieve
ASTM C127 / T85	Specific Gravity, and % absorption for coarse aggregates
ASTM C128 / T84	Specific Gravity and % absorption for fine aggregates
ASTM C131/C535	Resistance to degradation of aggregate by abrasion and impact in L.A. Machine, (price for one grading)
ASTM C136/T27	Particle size analysis of fine aggregates, (Fineness Modulus per C-33 is \$50 extra)
ASTM C136/T27	Particle size analysis of coarse aggregates
ASTM C136/T27	Particle size analysis of mix coarse and fine aggregates
ASTM C142	Clay Lumps and Friable Particles in Aggregates
ASTM C143	Slump determination in concrete or soil-cement mixes
ASTM C566 / T255	Total Moisture Content of Aggregate by Drying
ASTM C1252 / T304	Uncompacted Void content in Fine Aggregate
ASTM D6913/T88 (D422 old version)	Particle size analysis of soils (without hydrometer)
ASTM D421, D2217, D422 / T88; GDT-4	Particle size analysis of soils with hydrometer; GDOT Soil Gradation
ASTM D427 / T92	Shrinkage Factors of Soil
ASTM D546 / T37	Sieve Analysis of Mineral Filler
ASTM D558 / T134	Moisture-Density Relations of Soil-Cement Mixtures with Standard Compaction Effort
ASTM D559 / T135	Wetting and Drying, Soil-Cement Mixtures
ASTM D560 / T136	Freezing and Thawing, Soil-Cement Mixtures
ASTM D698 (A&B) / T99 (A&C); GDT-7/67, 4" mold	Moisture-Density Relations of Soils (Standard Proctor). Cost for Oversize Particles Correction with Bulk Gs is \$135
ASTM D698 (C) / T99 (B&D); 6" mold	Moisture-Density Relations of Soils (Standard Proctor). Cost for Oversize Particles Correction with Bulk Gs is \$135
ASTM D698 / T99 (One Point)	One-Point Std Proctor
ASTM D854 / T100	Specific Gravity of soils
ASTM D1140	Material finer than No.200 sieve
ASTM D1557 (A&B) / T180 (A&C), 4" mold	Moisture-Density Relations of Soils (Modified Proctor). Cost for Oversize Particles Correction with Bulk Gs is \$135
ASTM D1557 (C) / T180 (B&D), 6" mold	Moisture-Density Relations of Soils (Modified Proctor). Cost for Oversize Particles Correction with Bulk Gs is \$135
ASTM D1557 / T180 (One Point)	One-Point Modified Proctor
ASTM D1633	Unconfined compressive strength of molded soil-cement cylinders
ASTM D1883 / T93	CBR: California Bearing Ratio, 1 Point, (Price Does not include Proctor, remold to specified Parameters extra ³)
ASTM D2166 / T208	Unconfined compressive strength of cohesive soils ³
ASTM D2216 / T265	Moisture content of soil and rock
ASTM D2419/GDT-63	Determination of Sand Equivalent Value for Soil and Fine Aggregate
ASTM D2434 / T215	Permeability of granular soils / constant head ³ , for material <3/4" Sieve
ASTM D2434 / T215	Permeability of granular soils / constant head ³ , for material >3/4" Sieve



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ASTM D2435 (Method B) / T216	One dimensional consolidation (up to 8 load or unload steps) ³
ASTM D2435 (Method B) / T216	Additional load or unload step (after 8 steps)
ASTM D2487	Classification of soils for engineering purposes. Particle Size Analysis and Atterberg Limits required ⁴
ASTM D2488	Description and identification of soils (visual-manual procedure)
ASTM D2850 / T296	UU Triaxial Compression Test with Stress-Strain Graph, each point of eff. Stress ³
ASTM D2938 (ASTM D7012 Method C)	Unconfined compressive strength of intact rock core specimens ⁴ , if Young Modulus requested extra \$275
ASTM D2974 (Method A) / T267	Organic Content of Soil
ASTM D2980	Moisture-Holding Capacity of Saturated Peat Material
ASTM D3042	Carbonate Content of Aggregates
ASTM D3080 / T236	Direct Shear Test of Soils Under CD Conditions, 3 Points of Normal Stress ³
ASTM D3744(B)/GDT-75	Durability Index in Fine Aggregate
ASTM D4189	Silt Density Index (SDI)
ASTM D4221	Dispersive Characteristics of Clay
ASTM D4253/D4254	Max/Min Index Density, Relative Density by Vibratory Table
ASTM D4318 (Method A) / T89 / T90	Atterberg Limits / Multi-point LL
ASTM D4373	Carbonate Content of Soils
ASTM D4531	Determination of Bulk and Dry Density of Peat
ASTM D4542	Determination of soluble salt content of soil by refractometer
ASTM D4543	Preparation of rock core specimens with verification of dimensional and shape tolerances. Report is included.
ASTM D4546 Method B /GDT-6	One Dimensional Swell/Collapse, Method B (free swell) ³ ; GDOT Volume Change of Soils ⁴
ASTM D4546 Method C	One Dimensional Swel/Collapse ³ , Method C: with up to 5 additional load increments
ASTM D4644	Slake/Shale Durability, 2 Cycles
ASTM D4647	Classification of Clay soils by the Pinhole test ³
ASTM D4767 / T297	CU Triaxial Compression Test with PPM: 3 Poits of Eff. Stresses ³ , max effective stress <40 psi
ASTM D4767 / T297	CU Triaxial Compression Test with PPM: 3 Poits of Eff. Stresses ³ , effective stress 40-210 psi
ASTM D4767 / T297	CU Triaxial Compression Test with PPM: 3 Poits of Eff. Stresses for 6X12" Sample, max effective stress 40 psi ³
ASTM D4791	Flat and Elongated Particles in Coarse Aggregate
ASTM D4829	Expansion Index of Soil
ASTM D4842M	Durability by Freezing and Thawing of Solid Wastes
ASTM D4843M	Durability by Wetting and Drying of Solid Wastes
ASTM D4943 (Alternative to old D427)	Shrinkage Factors of Soil by the Wax Method
ASTM D4972	Determination of pH for Soils
ASTM D5084 Method D (Constant Flow)	Hydraulic Conductivity of saturated porous materials ³
ASTM D5084 Method C (Falling Head)	Hydraulic Conductivity of saturated porous materials ³
ASTM D5268	Specification for Topsoils used for landscaping purposes (including #10 & #200 sieve, pH and organic content)



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ASTM D5333	Collapse Potential of Soils ³
ASTM D5334	Thermal Resistivity/Conductivity for Soil and Soft Rock @ as-received MC ³ . Please call for Multi-Point testing.
ASTM D5334	Thermal Resistivity/Conductivity for Soil with 5 Points dry-out curve, Proctor is additional cost
ASTM D5821	Fractured (Faces) Particles in Coarse Aggregate
ASTM D5857 / GRI GCL	Permeability / Flexible Wall / GCL Flux Index
ASTM D6572	Dispersive Characteristics of Clayey Soils by the Crumb Test
ASTM D6913	Particle size analysis of soils without hydrometer
ASTM D7012 Method C (old D2938 method)	Unconfined compressive strength of intact rock core specimens ⁴ , if Young Modulus requested extra \$275
ASTM D7181	CD Triaxial Compression Test: 3 Poits of Effective Stresses ³ for sandy material, max Effective Stress <40 psi
ASTM D7263/D2937/D4531	Unit Weight and Moisture Content from an undisturbed sample
ASTM D7263/EM1110-2-1906 (Appendix II)	Unit Weight, Moisture and Porosity from an undisturbed sample (3" Diameter Shelby Tube)
ASTM D7928	Particle-Size Distribution of Fine Grained Soils Using Hydrometer Analysis (<#200 Sieve), with D6913 extra \$120
ASTM F1632	Particle size analysis of soils for Rootzone mixes
ASTM G187/ G57/AASHTO T288/D1125	Determination of Soil or Water Resistivity in Corrosion testing, if point at as-received MC requested extra cost is \$50
ASTM G187/ G57/AASHTO T288/D1125	Determination of Aggregates Resistivity in Corrosion testing
ASTM G51/AASHTO T289/D1293	Determination of pH in Corrosion testing
ASTM G200	Determination Oxidation-Reduction Potential (ORP) of soil
ASTM D4658	Determination of Sulfide Content in soil
AASHTO T290/ASTM C1580/D516	Determination of Water-Soluble Sulfate Ion Content in soil
AASHTO T291/D512	Determination of Water-Soluble Chloride Ion Content in soil
USDA / GA Chapter 290-5-26	USDA Soil Classification for on-site sewage system (Particle Size Analysis with Hydrometer also required. ⁴)
GDOT 810.02 Series	Proctor GDT-7 or GDT-67, Gradation GDT-4, Volume Change GDT-6
GDOT Methods	GDT19/24/63/65/OTHERS
	Cost per hour of Project Management, Special Report Preparation (if requested) by Professional Engineer (P.E.)
	Digital Photo Documentation (cost per photo)