



# ADVANCED TERRA TESTING

2019 Procedures

ADVANCED TERRA TESTING

303-232-8308 833 PARFET ST. UNIT A LAKEWOOD CO 80215 www.terratesting.com

## ROCK TESTING

### General Properties

Standard	Description	Notes
ASTM D7263	Moisture Content and Density (Modified For Rock)	
ASTM D7263	Moisture Content and Density (Paraffin Coated, Modified for Rock)	
ASTM D854	Specific Gravity (Modified For Rock)	Crushed to Minus #4
ASTM D4318	Atterberg Limits (Modified)	Prepped to Minus #100
ASTM 4644	Slake Durability	
ATT RP-37	Jar Slake	
ASTM D5312	Freeze Thaw	35 Cycles
ASTM D5313	Wet Dry	80 Cycles
ATT	Laboratory Technician Time (Per Hour)	For additional or requested labor

## Strength

Standard	Description	Notes
ASTM D5607	Direct Shear - Intact, Sawcut, or Natural Joint	Per Sample Up to 3 Residual Points
ASTM D5607	Direct Shear - Intact, Sawcut, or Natural Joint	Single Point, Peak and Residual
ASTM D7012 Method C	Unconfined Compressive Strength	Peak Load Only
ASTM D7012 Method D	Unconfined Compressive Strength with Stress-Strain	Includes Stress Strain Measurement, Young's Modulus and Poisson's ratio Calculations
ASTM D7012 Method D	Unconfined Compressive Strength with Stress-Strain	Includes Stress-Strain Measurement, Young's Modulus Calculations Only
ASTM D7012 Method A	Triaxial Compressive Strength	Peak Load Only
ASTM D7012 Method B	Triaxial Compressive Strength with Stress-Strain	Includes Stress-Strain Measurement, Young's Modulus and Poisson's ratio Calculations
ASTM D7012 Method B	Triaxial Compressive Strength with Stress-Strain	Includes Stress-Strain Measurement, Young's Modulus Calculations Only
ASTM D7012 Modified	Cyclic Compressive Strength	Unconfined or Triaxial
ASTM D3967	Indirect Splitting Tensile Strength (Per Specimen)	Brazilian Disk Method
ASTM D2936	Direct Tensile Strength	
ASTM D5731	Point Load Test (Per Specimen)	
ASTM D2845	Sonic Velocity - Unstressed Condition	Includes Young's Modulus and Poissons Ratio Calculation
ASTM D2845	Sonic Velocity - Stressed Condition	Includes Young's Modulus and Poissons Ratio Calculation
ASTM D7070 Method A	Creep of Hard Rock in Uniaxial Compression	Setup and First Week of Testing
ASTM D7070 Method A	Creep of Hard Rock in Uniaxial Compression	Each Additional Week of Testing
ASTM D7070 Method C	Creep of Hard Rock in Triaxial Compression	Setup and First Week of Testing
ASTM D7070 Method C	Creep of Hard Rock in Triaxial Compression	Each Additional Week of Testing

## Hardness and Mineral Identification

Standard	Description	Notes
ASTM D5873	Rock Hardness by Rebound Hammer	
ASTM D7625	CERCHAR Abrasivity Index Test	
ATT RP-43	Punch Penetration Index	
ATT RP-39	Mohs Hardness Scale	Scratch Test
ASTM C295	Petrographic Analysis	Microscopic Thin Section
ATT RP-46	X-Ray Diffraction	

## Dimension Stone Tests

Standard	Description	Notes
ASTM C99	Modulus of Rupture	
ASTM C97	Absorption and Bulk Specific Gravity	5 Trials
ASTM C170	Compressive Strength	

# Permeability

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Standard	Description	Notes
ASTM 5084 Modified	Flexible Wall Permeability Test	Tx/Pbp by Flow Pump, Modified For Rock
ASTM D4525	Permeability By Flowing Air Test	

Samples are held for 60 days after testing is completed. After 60 days samples will be discarded if prior arrangements have not been made.

A 1.5 multiplier will be applied to all contaminated or hazardous materials (chemical, radiological, or biological).

A 1.5 multiplier will be applied to all samples recieved under our foreign import license, and will be oven dried before leaving the facility.

A 1.1 multiplier will be applied to all core samples with a diameter larger than 2.5 inches.

Core drilling block samples will be billed at a rate of \$90 per hour.

**PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE**

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