

Laboratory Services

Soil Testing

Classification Tests

- Moisture Content (U)
- 4 Point Liquid & Plastic Limit (U)
- 1 Point Liquid & Plastic Limit (U)
- Particle Density (Gas Jar) (U)
- Density by Linear Measurement (U)
- Particle Size Distribution : Wet Sieve Method (U)
- Particle Size Distribution : Wet Sieve Method (SHW Classification) (U)
- Particle Size Distribution : Dry Sieve Method (U)
- Particle Size Distribution : Sedimentation by pipette method (U)

Chemical Tests

- Organic Matter Content (U)
- Acid Soluble Sulphate (U)
- Water Soluble Sulphate (U)
- Sulphate Content of Groundwater (U)
- Carbonate Content (U)
- pH Value (U)
- Chloride Content (U)
- Loss on Ignition (U)
- Total Dissolved Solids (U)

Compaction Tests

- Dry Density / Moisture Content Relationship—2.5kg Rammer (U)
- Dry Density / Moisture Content Relationship—4.5kg Rammer (U)
- Dry Density / Moisture Content Relationship—Vibrating Hammer (U)
- Moisture Condition Value (MCV) (U)
- Moisture Condition Value (MCV) / Moisture Content Relationship (U)
- California Bearing Ratio (CBR) (U)

Consolidation Tests

- One-dimensional Consolidation (U)

Shear Strength Tests

- Shear Strength by Hand Vane (U)
- Quick Undrained Triaxial—Single (U)
- Quick Undrained Triaxial—Multi (U)
- Quick Undrained Triaxial—Set of 3 x 38mm (U)
- 60mm Shear Box—3 Stages (U)
- 100mm Shear Box—3 Stages (U)

Aggregate Testing

- Water Content (U)
- Bulk Density (U)
- Loose Bulk Density (U)
- Particle Density & Water Absorption (U)
- Particle Size Distribution—Wet Sieve Method (U)
- Particle Size Distribution—Dry Sieve Method (U)
- Flakiness Index (U)
- Shape Index (U)
- Shell Content (N)
- Aggregate Crushing Value (ACV) (U)
- Ten percent Fines Value (TFV) - Dry (U)
- Ten percent Fines Value (TFV) - Soaked (U)
- Aggregate Impact Value (AIV) - Dry (U)
- Aggregate Impact Value (AIV) - Soaked (U)
- Los Angeles Abrasion (U)
- Magnesium Sulfate Soundness Value (U)
- Frost Heave (includes PSD and Compaction) (N)
- Micro-Deval (U)
- Sulfate Content (U)
- Chloride Content (U)
- Drying Shrinkage (U)

MATtest Limited is a successful independent materials laboratory that was established in August 2003. Our well equipped laboratory based in Shotts, situated half way between Glasgow and Edinburgh is UKAS accredited to BS EN ISO/IEC 17025 : 2005 and has the facilities to carry out tests to all the relevant British, European and American standards.

MATtest customers who are mainly based in the construction and civil engineering industry can be assured of a cost effective, reliable and efficient service.



We pride ourselves in customer relations and have very experienced staff in key areas to ensure that the highest standards are always achieved.



If you require information on any of the tests listed or details on our site services we can be contacted on the number below, by email or via our website.



Laboratory Services

Bituminous Testing

- Binder Content & Grading (U)
- Bulk Density—Procedure A (DRY) (U)
- Bulk Density—Procedure B (SSD) (U)
- Bulk Density—Procedure C (SOAKED) (U)
- Percentage Refusal Density—Single Core (U)
- Percentage Refusal Density—Set of 2 (U)
- Maximum Density—Procedure A (U)
- Hot Sand Test (U)

Concrete Testing (Hardened)

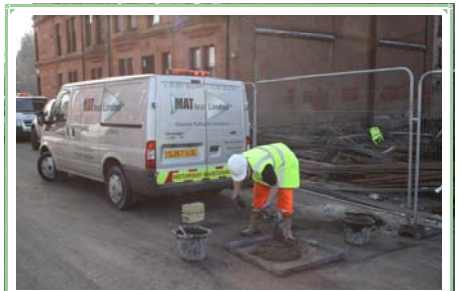
- Compressive Strength of Concrete Cubes (U)
- Compressive Strength of Concrete Cores (U)
- Transverse Strength (N)
- Flexural Strength (N)
- Water Absorption (N)
- Modulus of Elasticity (N)

Concrete Testing (Fresh)

- Sampling (U)
- Pour Records (U)
- Making and Curing Specimens for Strength Tests (U)
- Air Tests (U)
- Slump Tests (U)

Rock Testing

- Water Content (U)
- Density by Linear Measurement (U)
- Porosity & Density (Saturation & Buoyancy) (N)
- Porosity & Density (Saturation & Calliper) (N)
- Void Index (N)
- Swelling Pressure Index (N)
- Swelling Strain Index (N)
- Unconfined Swelling Strain (N)
- Slake Durability Index (U)
- Point Load (U)
- Recore of rock specimen (N)
- Uniaxial Compressive Strength (U)
- Uniaxial Compressive Strength—Young's Modulus (U)
- Uniaxial Compressive Strength—Young's Modulus & Poisson's Ratio (U)
- Indirect Tensile Strength—Brazilian (N)
- Shear Strength using Rock Shearbox (N)



U—Denotes UKAS Accredited Test
N—Denotes Non-UKAS Accredited Test

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