

AGAT Laboratories

Geotechnical Testing

AGAT Laboratories is a leading provider of material, aggregate, soil and rock testing. Using state of the art equipment, AGAT provides routine and customized solutions for all geotechnical and materials testing applications. Mining, tailings, construction and aggregate are just a few of the areas routinely serviced by AGAT and our team of experts.

AGAT is committed to providing the highest quality products for our clients. All testing is subject to rigorous quality control measures and multiple levels of data review. We know the importance of quick turnaround with results you can trust. Our goal is to work collaboratively with our clients to ensure they are getting the product they need, when they need it.

Reach out to your business development representative or contact us on info@agatlabs.com.

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Testing Capabilities

Failure Analysis	Method
Examination by Scanning Electron Microscopy	Proprietary Methodology
Binocular Microscope Imaging	Proprietary Methodology
Material Identification	Method
Examination by Scanning Electron Microscopy	Proprietary Methodology
Binocular Microscope Imaging	Proprietary Methodology
Elemental Mapping by XRF	Proprietary Methodology

Soil and Aggregate Tests	Method
Aggregate Alkali Reactivity - Accelerated Method	CSA A23.2-25A
Aggregate Alkali Reactivity - Extended Method	CSA A23.2-14A
Atterberg Limits	ASTM D4318
Capillary Suction Time (CST)	API 131/ISO 10416:2002
Clay Lumps in Natural Aggregate	CSA A23.2-3A
Density of Soil	ASTM D7263
Dynamic Linear Swell Meter (LSM)	Proprietary Methodology
Gradation of Fine Aggregate	ASTM C136
Hot Rolling Dispersion (price per fluid)	API 131/ISO 10416:2002
Hydraulic Cond - Constant Head, <1" Drain Rock (in Shelby tubes)	ASTM D2434
Hydrometer	ASTM D422
Low-Density Granular Material in Aggregate	CSA A23.2-4A
Moisture Content	ASTM D2216
Organic Content Soil (LOI)	ASTM D2974
Particle Size by Sieve	ASTM D422
Petrographic Examination of Aggregates	CSA A23.2-15A
Proctor - Modified	ASTM D1557
Proctor - Standard	ASTM D698
Relative Density (Max/Min)	ASTM D4254/D4253
Relative Density and Absorption of Coarse Aggregate (Saturated Surface-dry)	CSA A23.2-12A
Relative Density and Absorption of Fine Aggregate (Saturated Surface-dry)	CSA A23.2-6A
Resistance of Unconfined Coarse Aggregate to Freezing and Thawing	CSA A24.2-24A
Slake Durability	ASTM D4644
Sodium (or Magnesium) Sulfate Soundness	ASTM C88
Soil Water Characteristic Curve	ASTM D6836
Specific Gravity - Gas Pycnometry	ASTM D5550
Specific Gravity - Water Pycnometry	ASTM D854

Rock and Concrete Tests	Method
Brazilian Tensile Strength (per point)	ASTM D3967
Compression of Concrete Cylinder	ASTM C39
Direct Shear	ASTM D5607
Leeb Hardness (price per point)	ASTM C805
Petrographic Examination of Hardened Concrete	ASTM C856
Point Loading	ASTM D5731
Slump Test	ASTM C143
Triaxial - Consolidated Undrained	ASTM D4767
Triaxial - Rock, Multi-stage	ASTM D7012
Triaxial - Rock, Single stage	ASTM D7012A
UCS - with Modulus	ASTM D7012D
UCS - without Modulus	ASTM D7012C