



**AMERICAN  
UNIVERSITY OF BEIRUT**

**MAROUN SEMAAN FACULTY OF  
ENGINEERING & ARCHITECTURE**

**DEPARTMENT OF CIVIL & ENVIRONMENTAL ENGINEERING**  
**TESTING SERVICES AND PRICES**

**AGGREGATES**

<b>Type of Test</b>	<b>Price Per Sample in USD</b>
Absorption Capacity	15
Acid Resistance	30
Aggregate Crushing Value	80
Aspect Ratio	20
Carbonate Content	30
CBR Test for Aggregates	135
Chert Content	30
Chlorides in Fine Aggregate	25
Clay Lumps	40
Corelok Bulk Specific Gravity of Aggregates	60
Drying Shrinkage of Aggregate	225
Elongation Index	45
Flakiness Index	45
Fractured Particle in C A %	45
GSA Quarry	150
Grain Shape	45
Impact Value	60
Light Weight Pieces	45
Los Angeles Abrasion	60
Material Finer	25
Mechanical Analysis (Sieve Analysis)	30
Methylene Blue Absorption (M.B.A.)	180
Organic Content	45
PH of Aggregate	10
Potential Silica Reactivity	115
Presence of Organic Matter	25
Resistance of Salt Attack	250
Sand Equivalent	30
Shell Content	30
Slaked Durability	225
Soundness (Magnesium Sulfate or Sodium Sulfate)	250



**American University of Beirut**

PO Box 11-0236, Riad El Solh, Beirut 1107 2020, Lebanon

T +961 1 35 00 00 – Ext 3469/8/3 | [ceelabs@aub.edu.lb](mailto:ceelabs@aub.edu.lb)

[aub.edu.lb/MSFEA](http://aub.edu.lb/MSFEA)

Specific Gravity - Density	30
Stripping of Bitumen-Aggregate Mixture	50
Sulfates in Fine Aggregate	25
Ten Percent Fines Value	75

## **ASPHALT**

<b>Type of Test</b>	<b>Price Per Sample in USD</b>
Compaction of Asphalt Concrete Specimen	50
Corelok Bulk Specific Gravity of Asphalt Concrete	30
Corelok Theoretical Maximum Specific Gravity	60
Coring & Sawing	50
DSR - Original / RTFO	180
DSR - PAV at Given Temperature	180
Ductility	40
Dynamic Modulus	300
Extraction of Bitumen by Centrifuge Method	75
Flash Point	60
Long Term Aging of Asphalt Concrete	75
Loss on Heating	60
Marshall Test for Asphaltic Concrete (Compaction & Testing for 3 samples)	150
Mixing	45
MSCR at Given Temperature	200
PAV Aging	110
Penetration Test of Bitumen	50
Preparation of Temperature Sample	75
RTFO Aging	180
Sample Blending and Preparation	150
Softening Point	50
Solubility	75
Specific Gravity of Asphalt Binder	50
Stability of Asphalt Sample	25
Storage Stability	135
Theoretical Maximum Specific Gravity	60
Viscosity	75
Semi-Circular Bend Test at Specific Notch	500



## **CEMENT**

<b>Type of Test</b>	<b>Price Per Sample in USD</b>
Compressive Strength of Portland Cement ( 7 Days & 28 Days)	140
Fineness of Portland Cement (Blaine Test)	50
Fineness of Portland Cement (Sieve Test)	30
Linear Dimension Change	40
Normal Consistency of Portland Cement	50
Soundness of Cement Paste	50
Specific Gravity of Portland Cement	30
Tensile Strength of Portland Cement	30
Time of Setting of Portland Cement	60

## **CONCRETE**

<b>Type of Test</b>	<b>Price Per Sample in USD</b>
Absorption of Hollow Blocks	40
Carbonation Depth	10
Compressive Strength of Concrete Blocks	35
Compressive Strength of Concrete Blocks on Net Area	50
Compressive Strength of Concrete cores	15
Compressive Strength of Concrete Cubes	10
Compressive Strength of Concrete Cylinders	10
Compressive Strength of Concrete Cylinders + Casting	75
Crack Width Measurement	75
Porosity	20
Resistance to Plate Attachment	90
Three Edge Bearing Strength for Concrete Pipes	75
Potential Alkali Reactivity	300
Thickness of Coal Tar Epoxy on Concrete Pipe	20

## **ROCKS - TILES**

<b>Type of Test</b>	<b>Price Per Sample in USD</b>
Abrasion of Tiles - Rock (1000 Revolutions)	50
Absorption of Rock	15
Compressive Strength of Rock	15
De-cohesion Test for Marble	325
Density of Rock	15



Dimensions Change Due to Temperature for Tiles	60
Dimensions of Tile	25
Fifteen Cycles of Wetting and Drying	250
Freezing and Thawing Fifteen Cycles	250
Impact Resistance	200
Modulus of Rupture - Flexural - Transverse Strength	45
Mohs Hardness	10
Point Load Index	25
Porosity	15
Resistance of Pin Attachment	45
Resistance to Chlorine Solution	60
Resistance to Salt Attack	250
Slip Resistance	45
Stain Resistance Methylene Blue	30
Stain Resistance Oil	30

## **SHEETS**

<b>Type of Test</b>	<b>Price Per Sample in USD</b>
Dimension Change Due to Temperature	60
Puncture Resistance	45
Reaction to Fire	80
Tear Resistance	30
Water Absorption of Plastic	20
Water Vapour Transmission	25

## **SOIL**

<b>Type of Test</b>	<b>Price Per Sample in USD</b>
California Bearing Ratio = C.B.R.	135
Carbonate Content	30
Chlorides	25
Consolidated Undrained Triaxial Strength of Soil with Pore Measurement	1000
Consolidated Undrained Triaxial Strength of Soil without Pore Water Measurement	500
Consolidation Test (5 Loading Cases)	375
Density of Soil Using Sand Cone Method	40
Determination of Water Content	10
Direct Shear Test (Dry)	175
Direct Shear Test (Soaked)	200



Dry Weight	10
Liquid Limit	45
Mechanical Analysis Including Hydrometer	90
Methylene Blue Absorption	180
Modified AASHTO Compaction Test (5 Pts)	200
Moisture Content	10
Organic Content	45
Permeability	500
PH of Soil	10
Plastic Limit	30
Proctor Compaction Test ( 5pts)	175
Sieve Analysis (Without Hydrometer)	70
Specific Gravity of Soil Material - Density	40
Sulfates	25
Unconfined Compression Test	40
Unconsolidated Undrained Triaxial Strength of Soil	300
Uniaxial Compression Test of Rock (with Stress Strain Data)	120
Uniaxial Compression Test	30

## **STEEL**

<b>Type of Test</b>	<b>Price Per Sample in USD</b>
Bending Test of Steel Bars	10
Compression of Load of Steel Prop	150
Deformations Dimension of Steel Bars	15
Hardness of Steel	25
Impact Test of Steel	25
Izod Impact Test	25
Mass per Unit Area	15
Pull-Out Test	60
Shear Strength Test of Steel Bars	45
Tensile Strength of Geotextile	40
Tensile Strength of Steel Anchor Bolts	45
Tensile Strength Test of Steel Bars	25
Thickness of Galvanization	25
Thickness of Membrane	25



## **WATER TESTS**

<b>Type of Test</b>	<b>Price Per Sample in USD</b>
Adsorbable Organic Halides (AOX)	110
Aeration	170
Aerobic Digestion	170
Ammonia	25
Arbonaceous Biochemical Oxygen Demand	50
Arsenic	30
Autoclave	35
Benzene	70
Bicarbonate Alkalinity	25
Biochemical Oxygen Demand	50
Bromide	30
Cadmium	30
Calcium	25
Calcium Hardness	25
Carbonate Alkalinity	20
Chemical Oxygen Demand	40
Chlorides	25
Chlorine. Free Available	35
Chlorine. Total Residual	35
Chromium	30
Coagulation Flocculation - Single Jar Test	40
Cobalt	30
Color (True and Apparent)	10
Conductivity	20
Copper	30
Cyanide	70
Dissolved Oxygen	25
E-Coli	40
Enterococcus	45
Fecal Coliform	25
Fecal Streptococcus spp	70
Filterability Test	160
Fixed and Volatile Solids	35
Fluoride	50
Heterotrophic plate count	70
Hydroxide Alkalinity	25
Ion Exchange	225
Iron	30



Jar Test Alum	225
Jar Test Alum and Ferric Chloride	375
Jar Test Chloride	225
Langelier Saturation Index	170
Lead	30
Magnesium	25
Magnesium Hardness	25
Manganese	25
Microwave Digestion	100
Molybdenum	30
Nickel	30
Nitrates	25
Nitrites	25
Nitrogenous Biochemical Oxygen Demand	50
Oil and Grease	135
Oil and Grease (ECL)	160
Organic Carbon Liquid	85
Organic Matter	40
Ortho-Phosphates	40
Pesticides	170
PH Value (Hydrogen Ion)	10
Phenols	25
Phosphate	25
Potassium	40
Pseudomonas Aeruginosa	55
Pseudomonas Aeruginosa with No Growth	30
Salinity	25
Salmonella	25
Selenium	30
Settleable Solids	30
Settled Sludge Volume	35
Settling Column Analysis	170
Silica	30
Sludge Volume Index	35
Sodium	30
Specific Gravity	35
Streptococcus Faecalis	55
Sulfates	25
Sulfide	25
Temperature	10
Time To Filter	35



Toluene	70
Total Coliform with E-Coli	45
Total Coliforms	25
Total Dissolved Solids	25
Total Hardness	25
Total Hydrocarbons	85
Total Kjeldah Nitrogen	85
Total Nitrogen (Organic & Inorganic)	85
Total Organic Carbon	85
Total Organic Carbon solid	135
Total Phosphorus	85
Total Solids	35
Total Suspended Solids	35
Turbidity	15
Volatile Content	235
Volatile Organic Content by drying	55
Volatile Suspended Solids	35
Water Content	35
Xylenes	70
Zinc	30

- All mentioned prices are subject to VAT.
- For further price quotations contact: [ceelabs@aub.edu.lb](mailto:ceelabs@aub.edu.lb)
- The CEE labs offer a wide variety of specialized testing; Tests include Pile Integrity testing, Cross-Hole Ultrasound, Inclinometer...
- Duration of testing is to be agreed upon once samples are delivered.

Contact us:



01/350000 ext. 3463/3468/3469



**American University of Beirut**  
 PO Box 11-0236, Riad El Solh, Beirut 1107 2020, Lebanon  
 T +961 1 35 00 00 – Ext 3463/8/9 | [ceelabs@aub.edu.lb](mailto:ceelabs@aub.edu.lb)  
[aub.edu.lb/MSFEA](http://aub.edu.lb/MSFEA)