

Aggregate Testing

Aggregate Testing - Physical Parameters	Standard
Sieve Analysis (Unwashed)	BS 882 : 1992
Sieve Analysis (ABC)	BS 882 : 1992
Sieve Analysis (ABC)	RDA
Specific Gravity & Water Absorption (Porosity)	ASTM C 127-07
Specific Gravity of sand	
Los Angeles Abrasion Test – Coarse Grading	ASTM C131-06
Los Angeles Abrasion Test – Fine Grading	ASTM C131-03
Point Load Index	ASTM D 5731-08
Unconfined Compressive Strength	ASTM D 2938
Unconfined Compressive Strength, with poison ratio & young's modules	ASTM
Coring from block per 100mm core length-50mm/dia	ASTM D 7012-07 & ASTM D2938-79
Coring from block per 100mm core length-100mm/dia	ASTM D 7012-07 & ASTM D2938-79
Bulk Density of Aggregates	
Slake Durability of Shales and Similar Weak Rocks	ASTM D4644
Indirect Tensile (Brazilian Soaked)	ASTM D 3967-08
Indirect Tensile (Brazilian Unsoaked)	
Flakiness Index	BS 812 : Part 105
Elongation Index	BS 812-105.2:1990
10% Fine Value	BS 812-111:1990
Aggregate Impact Value	BS 812-112:1990
Clay Lumps & Friable Particles-Fine Aggregates	ASTM C142-97
Clay Lumps & Friable Particles-Coarse Aggregates	
ABC Mix Design	
Clay Silt & Dust Content	BS 812 : Part 1 : 1975
Aggregate Crushing Value	BS 812-110:1990
Sand Vibration Proctor(Single Point)	BS 1377:Part 4:1990
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Rock Tri Axial Test	ASTM D 7012-07

Aggregate Testing - Chemical Parameters	Standard
Chloride (Water-Soluble)	BS 812, Part 117
Chloride (Acid -Soluble)	BS 812, Part 117
Sulfate (Water-Soluble)	BS 812, Part 118
Sulfate (Total or Acid-Soluble)	BS 812, Part 118
Acid- soluble material in Fine Aggregates	BS 812, Part 118
Soundness of Aggregates - (by Use of Sodium Sulfate)	ASTM C 88,
Soundness of Aggregates - (by Use of Sodium Sulfate)	BS 812, Part 121
Soundness of Aggregates (by Use of Magnesium Sulfate)	ASTM C 88
Soundness of Aggregates (by Use of Magnesium Sulfate)	BS 812, Part 121
Soundness of Aggregates - (by Use of Sodium Sulfate)	AASHTO T-104
Organic Impurities in Fine Aggregates for Concrete	ASTM C40
Effect of Organic Impurities in Fine Aggregate on Strength of Mortar	ASTM C87
Lightweight Particles in Aggregate	ASTM C 123
Alkali-Silica Reactivity of Aggregates (Chemical Method)	ASTM C289
Insoluble Residue in Carbonate Aggregates	ASTM D3042