QESTLab

British Test Methods

Electronic Worksheets are screens that conform to a British Standard or other test method. They collect all the information required by the method, perform calculations and checks according to the method.

QESTLab™ currently caters for around 500 test methods from around the world. A sample of the types of tests covered is shown below. If you would like information on the availability of specific British test methods, please contact Spectra QEST at www.spectraqest.com.

This list of test methods is based on QESTLab v3.2.

BS Methods

BS 434 Pt 1 1984 Appendix D Residue on Sieving
BS 434 Pt 1 1984 Appendix F Water and Binder Content of Emulsion
BS 812 Pt 2: 1995 Particle Density & Water Absorption
BS 812 Pt 2: 1995 Voids & Bulking
BS 812 Pt 2: 1995 Method 6.3 Uncompacted Bulk Density *
BS 812 Pt 103.1:1985 Particle Size Distribution
BS 812 Pt 105.1:1989 Flakiness Index
BS 812 Pt 105.2:1990 Elongation Index
BS 812 Pt 106:1985 Shell Content *
BS 812 Pt 109:1990 Moisture Content *
BS 812 Pt 110 1990 Aggregate Crushing Value *
BS 812 Pt 111 1990 Ten per Cent Fines Value *
BS 812 Pt 112 1990 Aggregate Impact Value *
BS 812 Pt 117:1988 App C Chloride Content (Acid Soluble)
BS 812 Pt 118:1988 Method 6 Sulphate Content (Acid Soluble)
BS 812 Pt 120-89 Shrinkage (Metric) *
BS 1377 Pt 2:1990 Moisture Content *
BS 1377 Pt 2:1990 Method 4.5 Liquid & Plastic Limit (Casagrande)
BS 1377 Pt 2:1990 Method 6.5 Linear Shrinkage *
BS 1377 Pt 2:1990 Method 9.2 Particle Size Distribution (Wet Method)
BS 1377 Pt 2:1990 Method 9.3 Particle Size Distribution (Dry Method)
BS 1377 Pt 3:1990 Method 3 Organic Matter *
BS 1377 Pt 3:1990 Method 5.2 Sulphate Content (Acid Soluble)
BS 1377 Pt 3:1990 Method 7.3 Chloride Content (Acid Soluble)
BS 1377 Pt 4:1990 Method 3 Dry Density/Moisture Content
BS 1377 Pt 4:1990 Method 7 California Bearing Ratio
BS 1377 Pt 9:1990 California Bearing Ratio (In Situ)
BS 1377 Pt 9:1990 Method 2.2 Field Density Sand Replacement
BS 1377: Part 9 1990 In-situ Density and Moisture Content - Nuclear Method *
BS 1377: Part 9:1990 Plate Loading Test
BS 1881 Part 122:1983 Water Absorption
BS 1881 Part 208:1996 Initial Surface Absorption
BS 7263 Dimension, Transverse Strength and Water absorption of Kerbs *
BS EN 1097-8:2000 Polished Aggregate Friction Value *
BS EN 12390 Pt 8 Concrete Water Penetration (Cubes) *
BS EN 12390 Pt 8 Concrete Water Penetration (Cylinder) *
BS EN 12390 Pt 8 Concrete Water Penetration (Prisms) *

Other methods currently catered for in QESTLab™ include:

Concrete
Slump
Air Content
Mass Per Unit Volume of Freshly Mixed Concrete
Compressive Strength
Indirect Tensile Strength
Mass Per Unit Volume of Hardened Concrete
Drying Shrinkage
Compressive Strength of Concrete Cores

Aggregates
Bulk Density of Aggregate
Particle Density & Water Absorption
Particle Size Distribution by Sieving.
Material Finer than 75um in Aggregates
Material Finer than 2um In Aggregates
Particle Shape, by Proportional Calliper
Flakiness Index.
Average Least Dimension
Aggregate Crushing Value
Wet/Dry Strength Variation
Los Angeles Value.
Sodium Sulphate Soundness
Weak Particles in Coarse Aggregates
Clay and Fine Silt
Organic Impurities

Soils
Moisture Content
Liquid Limit of a Soil
Plastic Limit of a Soil
Plasticity Index
Linear Shrinkage
Soil Particle Density
Particle Size Distribution
Dry Density/Moisture Content Relation
Field Density - Nuclear Gauge
Assignment of Maximum Dry Density and Optimum Moisture Content Values
California Bearing Ratio
Penetration Resistance
Permeability
Triaxial Compression Test
Consolidation

Asphalt
Bitumen Content and Aggregate Grading
Stability and Flow-Marshall Procedure
Maximum Density
Voids and Density Relationships for Compacted Asphalt Mixes
Bulk Density of Compacted Asphalt
Field Density of Compacted Asphalt

*Indicates test screen that allows for the entry of test results and other data required for reporting only (does not perform calculations).

Note: Although every effort has been made to ensure that the above information is correct, Spectra QEST makes no guarantee as to its accuracy.