



# QUESTLab

## 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.

QUESTLab™ 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 QUEST at [www.spectraquest.com](http://www.spectraquest.com).

This list of test methods is based on QUESTLab v3.3.

### 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) \*  
BS EN 12504-1:2000 Compressive Strength of Concrete Cores

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.