



CONCRETE SECTION - 05





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Sampling, Consistency and Workability

The correct sampling and mixing of fresh concrete is important if test results are to be reliable. Most of Equipment necessary for efficient sampling and mixing is standard laboratory equipment detailed in the Laboratory Equipment Section of this Catalogue.

To achieve the Concrete achieves its maximum possible strength and yet retains its ease of placing on site, it is essential that the designed of the concrete mix, in relation to the water-cement ratio and workability, is closely controlled.

Slump Test

EN 12350-2;ASTM C143;AASHTO T119

Test appropriate for concrete mixes of medium and high workability

Information for Order

Product# 05-0300

Slump Cone Complying with EN 12350-2;ASTM C143 and AASHTO T119

Product# 05-0302

Tamping Rod Steel, 600 mm long x 16 mm dia hemispherical at both ends.

Product# 05-0303 Steel Rule

Product# 05-0304 Base Plate

Product# 05-0305 Slump Cone Funnel

Product# 05-0306 Slump Test Set, BS and ASTM Comprising Slump Cone, Base plate, Steel rule, tamping rod and funnel.

Accessories

Product# 05-0307 Scoop

Product# 05-0308 Rubber Mallet

Product# 05-0309 Measurement Scale



Slump Test Apparatus



Moulding Equipment

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Test procedures requires that specimens are cast in a number of standard size convenient for compressive and flexural strength determination. The engineering tolerances specified for moulds are very strigent and the internal finish of the surface must be of a high order to comply with the recommendations laid down in many international standards. Moulds must not deform during manufacture of concrete specimens if the specimen dimensions are to be maintained.

4 Part Cube Mould

EN 12390-1, -2; DIN 51229

Information for Order

Product# 05-0311

150x150x150 mm Cube Mould, 4 part with clamp attached base plate.

Product# 05-0313

50x50x50 mm Three Gang Mould with clamp attached base plate.

Product# 05-0315

70x70x70 mm Three Gang Mould with clamp attached base plate.

Information for Order

Product# 05-0318

Cylinder Capping Frame comprising a vertical support

Information for Order

Product# 05-0320 Air Entrainmentmeter



Product# 05-0320
Air Entrainmentmeter



Cylinder Mould Cast Iron

Cylinder Moulds

EN 12390-1, -2

Information for Order

Product# 05-0322 Cylinder Mould 150 mm diameter x 300 mm long. Complete with base plate (Cast Iron)

Product# 05-0324

Cylinder Mould 150 mm diameter x 150 mm long. Complete with base plate.

Product# 05-0326

Cylinder Mould 150 mm diameter x 300 mm long. Complete with base plate and locking ring (Steel Cam System.)

Accessories for all Moulds

Product# 05-0327

Spanner two required.

Product# 05-0328

Tamping Rod ASTM requirements.

Product# 05-0329

Compacting Bar EN requirements.



Product# 05-0320 Cube Mould, Tempering Rod, Steel Cylinder Mould



Capping Compound

When conducting a compressive strength test on a concrete cylinder it is important that the ends of the specimen are flat and parallel to each other. The trowelled face of a prepared concrete cylinder, or both ends of a concrete core, will require treatment to obtain these conditions.

Sulphur Compound Method

EN 12390-3

Information for Order

Product# 05-0330

Cylinder Capping Frame comprising a vertical support, mounted on a steel base designed to accommodate both sizes of capping plates, Supplied without capping plate.

Accessories

Product# 05-0332

Capping Plates

Specimen diameter 150mm

EN 12390-3

Information for Order

Product# 05-0334

Electric Cement Mixer

Circulating System Thermostatic Concrete Curing Tank Heater

Information for Order

Product# 05-0336 Circulating System
 Thermostatic Concrete Curing
 Tank Heater

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Melting Pot

Used to melt capping compound, this pot comprises a metal container in a well-lagged steel jacket. A thermostatic control and stand by heat switch are fitted. Supplied complete with lift off cover.

Information for Order

Product# 05-0338

Melting Pot

For 220 - 240 V AC, 50 Hz, 1 ph



Product# 05-0334
 Electric Cement Mixer



Product# 05-0338
 05-2711 Melting Pot



Circulating System Thermostatic
 Concrete Curing Tank Heater

Product# 05-0336 Electric Cement Mixer



Compression Machines

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DGR 1500 kN and 2000 kN

1500 kN/337500 lbf and 2000 kN/450000 lbf capacity

Three machine options

- Machines to meet the requirements of BS 3892-3, 187, 6717, ASTM 1012-9 DIN 51220, 51223, EN 12390-3, -4, -5, 12504-1, 1354, 1521, 3161, 1338, 772-6, 13286-41
- All machines calibrated to BS EN ISO 7500-1, ASTM E4; AS 2193 Grade A; AFNOR P18-411 Grade 1.0
- High stability load frame
- Efficient hydraulic power pack

The DGR range of 1500 kN and 2000 kN capacity compression machines has been designed to meet the need for reliable and consistent testing.

Load Indication

The DGR dial gauge readout satisfies BS EN ISO 7500-1, ASTM E4; AS 2193 Grade A; AFNOR P18-411 Grade 1.0 for calibrated accuracy and repeatability.

Information for Order

Product# 05-0340
DGR 1500 Hand Operated Compression Machine

Product#05-0342
Dial Gauge 1500 kN

Product# 05-0344
DGR 2000 Digital Electric Compression Machine

Product# 05-0346
Dial Gauge 2000 kN



Compression Tester-Frame On Mortar(Specimens)

Product# 05-2801 Dial 1500 kN 2000 kN Electric Compression Machine



DIGITAL SPEED CONTROL MOTORIZED COMPRESSIVE STRENGTH MACHINE

05- 0346 DGR 1500 kN 2000 kN Digital Electric Compression Machine