

Aggregates

Thermal and weathering properties

Determination of drying shrinkage and resistance to thermal shock

ROCK AND AGGREGATES TESTING

DETERMINATION OF DRYING SHRINKAGE

STANDARD

EN 1367-4

The scope of this test is the determination of the effect of aggregates on the drying shrinkage of concrete. The test is based on the testing of concretes of fixed mix proportions and aggregates of 20 mm max. size.

48-D0453

Prism mould 50x50x200 mm complete with steel inserts. Three gang model

Weight approx.: 8 kg



48-D0453



62-L0035 Detail of the analogic version

Accessories

- 48-D0454/1 Metal test plate 440x240x4 mm thick with 12 mm high turned lip
- 48-D0454/2 Metal support frame for metal test plate
- 48-D0454/3 Fire proof plate 450x250x10 mm thick
- 48-D0454/4 Stainless steel sieve fabric, 2 mm aperture, 250x445 mm size

62-L0035

Length comparator

62-L0035/A

Length comparator. Digital version

General description and specifications

This apparatus is used to determine the changes in length of cement prisms in the accelerated soundness test. It is also used to measure length changes of 40x40x160 mm, and other sizes of cement and concrete specimens. The instrument consists of an analogic or digital dial gauge, which is mounted on a steel frame. The top anvil is adjustable to suit the required specimen.

Overall dimensions:

180x180x490 mm

Weight approx.: 10.5 kg

Accessories

- 62-L0034/3 Reference rod, 205 mm long



62-L0035/A

DETERMINATION OF RESISTANCE TO THERMAL SHOCK

STANDARD

EN 1367-5

This test involves heating soaked aggregates to 700°C for 3 min and comparing the loss in fines, and the strength loss, determined in accordance with EN 1097-2, before and after the heat test.

10-D1419

Muffle furnace 1100°C max. temperature. High capacity, floor mounting model. 220-380 V, 50-60 Hz, 3 ph.



10-D1419

Specifications

Max. temperature: 1100°C

Electronic thermoregulator and 24 hour timer

Power: 9000 W

Inside dimensions: 300x220x500 mm (wxhxd)

Outside dimensions: 750x1650x1100 mm (wxhxd)

Weight approx.: 400 kg

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