

Balloon method

The principle of operation is similar to the sand replacement but the hole is filled by a rubber balloon where water is pumped. The amount of water can be easily determined by the graduation of the cylinder model 35-T0131 or by the graduated stem model 35-T0134 and 35-T0134/A and then the density of removed soil. Two versions are available: the ASTM - AASHTO - CNR 1.6 litre capacity for 35-T0131 and the NF version 3 and 6 litres capacity for 35-T0134 and 35-T0134/A.

BALLOON METHOD:

ASTM - AASHTO - CNR VERSION

STANDARD

ASTM D2167, AASHTO T205, CNR No. 22 methods

35-T0131

Balloon density apparatus

Used to determine the in-situ density of compacted or firmly bonded soils. The test set consists of a graduated cylinder 1596 ml capacity housed inside an aluminium guard, a reversible rubber aspirator pump, a density plate 9 inches square, and 12 rubber balloons.

Weight approx.: 6 kg

Spare parts

- 35-T0131/1 Spare graduated cylinder 1596 ml capacity
- 35-T0131/2 Reversible pump complete with connections
- 35-T0131/3 Density plate 9 inches square
- 35-T0131/4 Rubber balloons. Pack of 12

BALLOON METHOD: FRENCH VERSION

STANDARD

NF P94-061-2

35-T0134

3000 ml balloon density apparatus

For the determination of the in-situ density of well bonded soil according to French specifications. This method is similar to the ASTM D2167 apparatus but with a capacity of 3000 ml. A metal cylinder is filled with water, which is then pumped into a rubber membrane mounted on the base of the cylinder. The water pressure is controlled by a pressure gauge and the volume of the balloon is measured on the graduated piston stem. The apparatus is supplied complete with base plate, 6 reinforced membranes and 3 locking clamps.

Weight approx.: 9.5 kg

Spare parts

35-T0134/2

Spare reinforced 3000 ml membranes. Pack of 6



35-T0134/A

6000 ml balloon density apparatus

Similar as principle of operation and design to the 35-T0134 model. Supplied complete with base plate, 3 locking clamps and six reinforced membranes.

Weight approx.: 11.5 kg

Spare parts

35-T0134/A2

Spare 6000 ml reinforced membranes. Pack of 6



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