



BALLOON DENSITY METHOD

S230 KIT

Balloon density apparatus, 1600 ml capacity

STANDARDS: ASTM D2167 / AASHTO T205 / CNR N° 22

Used to determine the in-situ density of fine graded compacted or bonded soil. The apparatus is placed over the hole excavated in the soil, and water is pumped into a rubber balloon and forced into the hole. The amount of water displaced into the balloon is measured from the graduation of the scale.

The instrument consists of a graduated plexiglass cylinder 1600 ml. capacity housed within an aluminium alloy casting, a rubber pump with stop valve, a density plate and 12 rubber balloons.

Dimensions: 340x340x700 mm
Weight: 8 kg

SPARE PART for S230 KIT:

S230-01

Rubber balloons, pack of 12



S230 KIT

S232 KIT

Balloon density apparatus, 3000 ml capacity

STANDARD: NF P94-061-2

Used to determine the in-situ density of fine graded compacted or bonded soil, this unit has the same test system of mod. S230 KIT, but with a capacity of 3000 ml as requested by French Specification. A hand-driven piston forces the water into the rubber membrane. A dial gauge measures the water pressure so to execute all the test at the same pressure.

An index engraved on the stem of the piston measures the volume of water filling the hole.

The unit is supplied complete with 6 reinforced rubber membranes, 4 locking clamps, base plate, accessories.

Dimensions: 360x360x700 mm
Weight: 10 kg

SPARE PART for S232 KIT:

S232-01

Reinforced rubber membrane, pack of 6



S232 KIT

S233 KIT

S233 KIT

Balloon density apparatus, 6000 ml capacity

Identical to mod. S232 KIT, but with capacity of 6 litres.
Weight: 18 kg

SPARE PART for S233 KIT:

S233-01

Reinforced rubber membrane, pack of 6

ACCESSORIES, used for levelling, digging, collecting and maintaining the soil samples:

- S240-01** Scraper to level the ground
- S240-02** Metal dibber tool
- S240-05** Metal pointed rod
- V195** Rubber mallet 50 mm dia.
- V193** Steel hammer 300 g
- V194** Steel hammer 2 kg.
- V199** Density pick
- V198** Chisel 300 mm long x 25 mm wide
- V186** Density spoon, big sized
- V188** Trowel, 100x200 mm
- V183** Aluminium scoop 325 cc
- V125-03** Tinned can 5 litre cap.



S240-01...V199