

SAND DENSITY CONE APPARATUS

STANDARDS: ASTM D1556, AASHTO T181, T191

Used to determine the in-situ density of fine grained compacted soil.

The test consists in digging a hole into the ground and then collect, dry and weight the sampled soil.

The hole is than filled with dry sand from the cone container.

6,5" Sand Density Cone Set is supplied with Sand Cone Assembly with valve, Metal Base with Centre Hole and 5lt capacity Plastic Sand Jar.

Calibrating Container for HR-S5700 should be ordered separately.

12" Sand Density Cone Set is supplied with Sand Cone Assembly with valve, Metal Base with Centre Hole and 15 lt capacity Metal Sand Jar.

12" Density Cylinder is used for determining in place density of compacted base courses containing large sizes of coarse aggregates.

Technical Specifications:

Product Code	Product Name	Dimensions (cm)	Weight (kg)
HR-S5700	Sand Density Cone Set, 6,5"	30x30x60	4
HR-S5720	Sand Density Cone Set, 12"	70x70x85	15
HR-S5730	Density Cylinder, 12"	47x32x26	10

Spare Parts & Accessories:

Product Code	Product Name	Dimensions (cm)
HR-S5700/1	Sand Cone Assembly with valve, 6,5"	Ø 6,5x18
HR-S5700/2	Metal Base with Centre Hole for HR-S5700	30x30x2
HR-S5710	Plastic Sand Jar, 5 lt capacity	Ø 16x33
HR-S5700/4	Calibrating Container for HR-S5700	Ø16,5x18,7
HR-S5720/1	Sand Cone Assembly with valve, 12"	Ø 12"x35
HR-S5720/2	Metal Base with Centre Hole for HR-S5720	70x70x5
HR-S5720/3	Metal Sand Jar, 15 lt capacity	25x50



BALLOON DENSITY APPARATUS

STANDARDS: ASTM D2167, AASHTO T205

Balloon Density Apparatus is used to determine the in-situ density of compacted or firmly bonded soils.

The HR-S7700 consists of a graduated cylinder 1596 ml capacity, housed inside an aluminium guard, a reversible rubber aspirator pump, a density plate 9" square and 12 rubber balloons. 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.

The HR-S7705 is 3000 ml capacity. 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.

Technical Specifications:

Product Code	Product Name	Capacity (ml)	Dimensions (cm)	Weight (kg)
HR-S7700	Balloon Density Apparatus	1600	25x25x70	7
HR-S7705	Balloon Density Apparatus	3000	36x36x100	10



Spare Parts & Accessories:

Product Code	Product Name
HR-S7700/1	Rubber balloons, Pack of 12