

The verification of the degree of compaction can be determined on site by a simple procedure consisting essentially in removing and weighing a part of compacted soil and replacing it in the hole with sand by a simple apparatus recording the volume of sand and then calculating the density of the removed soil. Two versions are available: BS and ASTM. The principle of operation is the same but parts and sizes are different.

SAND REPLACEMENT METHOD - ASTM, AASHTO, CNR, NF VERSIONS

STANDARD

ASTM D1556, AASHTO T191, CNR No. 22
NF P94-061-3

Complete sets: double cone, 2 plastic sand jar⁽¹⁾ 5 l cap. and metal tray

35-T0128

4" (101.6 mm) sand density cone apparatus

35-T0129

6.5" (165.1 mm) sand density cone apparatus

Accessories

35-T0127/1 Standard sand 0.4 – 2 mm, CNR No. 22

35-T0130/8 Calibrating container, 6". For use with 35-T0129 apparatus. Internal dia. 165 mm, depth 187 mm. Weight approx. 5 kg

note

In the 12", 35-T0133 model, the two cones are connected by a valve with pouring hole 25 mm dia. The clear plastic 15 litres container is fitted to the cone with two clamps. Supplied complete with 700 mm dia. baseplate. This model is recommended for gravel and coarse-grained soil.

35-T0133

12" (304.8 mm) sand density cone apparatus

(1) Except the 12" model supplied with only 1 acrylic sand container

SAND REPLACEMENT METHOD - BS VERSION

STANDARD

BS 1377:9, 1924:2

Complete sets: pouring cylinder, calibration container and metal tray.

35-T0125

100 mm sand replacement complete set

35-T0125/A

150 mm sand replacement complete set

35-T0126

200 mm sand replacement complete set

Description and specifications

The sand pouring cylinder and calibration can are made of cast aluminium and precisely machined.

The tray is made of plated sheet steel. Each part can be ordered individually.



35-T0125, 35-T0125/A, 35-T0126

Sand replacement set parts (ASTM, AASHTO, CNR versions)

Models (in./mm dia.)	Code 4"/101.6	Code 6.5"/165.1	Code 12"/304.8
Complete set	35-T0128	35-T0129	35-T0133
Weight approx. kg	3	3	20
Double cone	35-T1028/1	35-T0129/1	/
Plastic sand jar 5 l cap.	35-T0130/2	35-T0130/2	/
Metal base plate with flanged (rimmed) hole	35-T0128/2	35-T0129/2	/

Sand replacement set parts (BS versions)

Models (mm dia.)	Code 100	Code 150	Code 200
Complete set	35-T0125	35-T0125/A	35-T0126
Weight (kg)	7.7	13	27.5
Sand pouring cylinder	35-T0125/1	35-T0125/A1	35-T0126/1
Weight (kg)	4	7.5	16
Calibration can	35-T0125/2	35-T0125/A2	35-T0126/2
Weight (kg)	2.2	3.5	8.5
Density tray	35-T0125/3	35-T0125/A3	35-T0126/3
Size (mm)	305x38	300x40	457x38
Weight (kg)	1.5	2	3

Accessories

35-T0127 Standard sand 600/300 micron, 50 kg bag