

# Sand density cone apparatus

**STANDARDS:** ASTM D1556 | AASHTO T191 | NF P94-061-3 | CNR N° 22 | UNE 7371

Used to determine the in-situ density of fine grained compacted soil and to verify the degree of compaction.

The test consists in digging a hole into the ground and then collect, dry and weight the sampled soil. The hole is now filled with dry sand from the cone container and the volume of sand recorded.

Three versions are available Ø 4" 6.5" 12" each one suitable for different grain sized. The S231KIT model Ø 12" is recommended for coarse grained soil and gravel (over 38 mm diameter).

The kit consists of:

- Metal double cone assembly with valve, galvanized for rust protection.
- Metal base with rimmed centre hole for cone housing, galvanized.
- Two plastic jar, 5 litre capacity. (One jar only 15 litre capacity complete of cone fixing device for S231 KIT version)

The calibrating container is an accessory, to be ordered separately.



**Models available :**

Model	Diameter mm	Double cone with valve	Metal base with hole	Jar plastic	Dimensions mm	Weight Kg	Calibrating container (optional accessory)
S234-10-	101.6 mm	S234-11	S234-12	V121	190x190x500	2.300	S234-13
S234-KIT	165.1 mm	S234-05	S234-06	V121	305x305x600	3.350	S234-01
S231-KIT	304.8 mm	S231-05	S231-06	S231-11	620x620x920	13.600	S231-01

**Accessories :**

**S235N :** Standard sand for density tests, passing 600 micron and retained on 300 micron. ASTM, AASHTO, BS.

Bag of 25 kg.

**S235-01N :** Standard sand, passing 0.4 mm and retained on 2 mm. CNR N° 22.

Bag of 25 kg.



**S235N**