SOIL > DENSITY DETERMINATION

SAND CONE / REPLACEMENT TEST SET

Code : T061



- The Sand Cone / Replacement Test Set is used to determine the in-situ density of compacted fine-grained soils using the sand replacement method, providing accurate measurements essential for quality control in earthworks and pavement construction.
- The test involves excavating a hole in the compacted soil layer, filling it with calibrated sand from a container, and measuring the volume of sand required to fill the hole, thereby calculating the soil's density.
- This apparatus is particularly effective for soils with particles smaller than 50 mm and is widely used in geotechnical investigations and construction projects to ensure compliance with compaction specifications.
- The set includes a sand cone, base plate, and a sand pouring cylinder or plastic jar, all constructed from durable materials to withstand rigorous field conditions and repeated use.
- Optional accessories, such as calibration containers and standard sand, are available to enhance the accuracy and reliability of test results, aligning with international testing standards.

STANDARDS

ASTM D1556 • AASHTO T191 • BS 1377-9 • BS 1924-2

SET

ASTM Set	SAND CONE SET - Ø 6.5"	SAND CONE SET - Ø 12"
Double-Cone	Cast-Aluminum (Ø 6.5")	Ø 12"
Base Plate	Cast-Aluminum	✓
Plastic Jar	✓	X

BS Set	SAND REPLACEMENT TEST SET - Ø 100 mm	SAND REPLACEMENT TEST SET Ø 150 mm	SAND REPLACEMENT TEST SET - Ø 200 mm
Cone Diameter	Ø 100 mm	Ø 150 mm	Ø 200 mm
Base Plate	✓	✓	✓
Sand Pouring Cylinder	✓	✓	✓
Calibration Container	Ø 100 mm x 150 mm	Ø 150 mm x 200 mm	Ø 200 mm x 250 mm

ORDERING INFORMATION

Item Name	Item Code
BASE PLATE for SAND CONE SET - Ø 6.5"	T061P001H
CALIBRATING CONTAINER for SAND CONE SET - Ø 6.5"	T061P002H

CONE for SAND CONE SET - Ø 6.5"	T061P003H
PLASTIC JAR for SAND CONE SET - Ø 6.5"	T061P004H
BASE PLATE for SAND CONE SET - Ø 12"	T061P005H
DOUBLE-CONE for SAND CONE SET - Ø 12"	T061P006H
BASE PLATE for SAND REPLACEMENT TEST SET - Ø 100 mm	T061P007H
CALIBRATING CONTAINER for SAND REPLACEMENT TEST SET - Ø 100 mm	T061P008H
SAND POURING CYLINDER and CONE for SAND REPLACEMENT TEST SET - Ø 100 mm	T061P009H
BASE PLATE for SAND REPLACEMENT TEST SET - Ø 150 mm	T061P010H
CALIBRATING CONTAINER for SAND REPLACEMENT TEST SET - Ø 150 mm	T061P011H
SAND POURING CYLINDER and CONE for SAND REPLACEMENT TEST SET - Ø 150 mm	T061P012H
BASE PLATE for SAND REPLACEMENT TEST SET - Ø 200 mm	T061P013H
CALIBRATING CONTAINER for SAND REPLACEMENT TEST SET - Ø 200 mm	T061P014H
SAND POURING CYLINDER and CONE for SAND REPLACEMENT TEST SET - Ø 200 mm	T061P015H
STEEL PEG	T061P016H
STANDARD SAND - 1350 g	T061P017H
STANDARD SAND - 25 kg	T061P018H
CALIBRATING CONTAINER for SAND CONE SET - Ø 12"	T061P019H
SAND CONE SET - Ø 6.5"	T061X06AH
SAND REPLACEMENT TEST SET - Ø 100 mm	T061X10BH
SAND CONE SET - Ø 12"	T061X12AH
SAND REPLACEMENT TEST SET - Ø 150 mm	T061X15BH
SAND REPLACEMENT TEST SET - Ø 200 mm	T061X20BH