SOIL > SAMPLE PREPARATION

SURFACE SOIL SAMPLER

Code : T058



- The Surface Soil Sampler is used to determine the in-place density of soils using the drive-cylinder method, providing accurate measurements essential for geotechnical evaluations and construction quality control.
- This apparatus is suitable for soils that do not contain significant amounts of particles larger than 4.75 mm (3/16 inch) and can be readily retained within the sampling cylinder, ensuring the integrity of the specimen during extraction.
- Common applications include assessing the compaction quality of structural fills, highway embankments, and earth dams, where precise in-situ density measurements are critical for structural stability.
- The sampler comprises a thin-walled cylindrical tube driven into the soil to extract an undisturbed sample, which is then used to calculate the soil's density based on its mass and volume.
- To ensure representative sampling, the drive cylinder volumes are designed to be as large as practical, with a minimum volume of 850 cm^3 (0.030 ft^3), aligning with standard testing requirements.

STANDARDS

ASTM D2937 • BS 1377-9

TECHNICAL SPECIFICATIONS

- Sampling Tube Diameters:
- Complying to ASTM: 4" (101.6 mm)
- Complying to BS: 100 mm, 150 mm
- Material: High-strength steel with corrosion-resistant finish

ORDERING INFORMATION

Item Name	Item Code
CORE CUTTER Ø 100 mm - BS	T058P001H
DRIVING DOLLY Ø 100 mm - BS	T058P002H
DRIVING RAMMER Ø 100 mm - BS	T058P003H
CORE CUTTER Ø 150 mm - BS	T058P004H
DRIVING DOLLY Ø 150 mm - BS	T058P005H
DRIVING RAMMER Ø 150 mm - BS	T058P006H
THIN WALL SAMPLING TUBE - ASTM	T058P007H
SLIDING WEIGHT 5 kg - ASTM	T058P008H
SURFACE SOIL SAMPLER (Drive-Cylinder Method) 4" - ASTM	T058X00AH
SURFACE SOIL SAMPLER (Drive-Cylinder Method) 3" - ASTM	T058X03AH
SURFACE SOIL SAMPLER (Core Cutter) Ø 38 mm - BS	T058X03BH
SURFACE SOIL SAMPLER (Core Cutter) Ø 100 mm - BS	T058X10BH

SURFACE SOIL SAMPLER (Core Cutter) Ø 150 mm - BS T058X15BH