

SOIL PENETROMETER (Proctor Type) (T310)

Category: Soil



Product Code: T310

Category: SOIL

Sub-Category: SOIL CLASSIFICATION

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- The Proctor Penetrometer is used to establish the relationship between moisture content and penetration resistance in fine-grained soils, facilitating rapid field assessments of

compaction characteristics.

- By correlating penetration resistance with moisture content, this device aids in determining the optimal moisture level for achieving maximum soil compaction, essential for foundation and earthwork projects.
 - The apparatus features a calibrated spring mechanism with a direct-reading scale, ensuring accurate and repeatable measurements across various soil conditions.
 - Equipped with a set of interchangeable stainless steel needles of varying diameters, the penetrometer accommodates a wide range of soil types and compaction levels.
 - Its portable design and straightforward operation make it an indispensable tool for geotechnical engineers conducting field evaluations and quality control testing.
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STANDARDS

ASTM D1558

TECHNICAL SPECIFICATIONS

- Maximum capacity: 40 kgf (90 lbf)
- Spring dynamometer with direct-reading scale

SUPPLIED WITH

- Interchangeable stainless steel needles:
 - Ø 28.55 mm (645 mm² / 1 in²)
 - Ø 24.79 mm (484 mm² / 3/4 in²)
 - Ø 20.22 mm (323 mm² / 1/2 in²)
 - Ø 16.54 mm (215 mm² / 1/3 in²)
 - Ø 12.83 mm (129 mm² / 1/5 in²)
 - Ø 9.07 mm (65 mm² / 1/10 in²)
 - Ø 6.40 mm (32 mm² / 1/20 in²)
 - Ø 5.23 mm (22 mm² / 1/30 in²)
 - Ø 4.52 mm (16 mm² / 1/40 in²)
- Protective carrying case

ORDERING INFORMATION

Item Name	Item Code
NEEDLE for T310 - Ø 28.55 mm	T310P001H
NEEDLE for T310 - Ø 24.79 mm	T310P002H
NEEDLE for T310 - Ø 20.22 mm	T310P003H
NEEDLE for T310 - Ø 16.54 mm	T310P004H
NEEDLE for T310 - Ø 12.83 mm	T310P005H

NEEDLE for T310 - Ø 9.07 mm	T310P006H
NEEDLE for T310 - Ø 6.40 mm	T310P007H
NEEDLE for T310 - Ø 5.23 mm	T310P008H
NEEDLE for T310 - Ø 4.52 mm	T310P009H
PROCTOR PENETROMETER SET	T310X00XH

Keywords: Proctor Penetrometer, soil compaction testing, ASTM D1558, moisture-penetration relationship, field soil testing, geotechnical equipment, soil density evaluation, compaction control, interchangeable needles, T310