

Liquid limit penetrometers

BS 1377-2 | UNE 7002 | UNE 7377 | UNI 10014 | DIN 18122 | NF P94-052-1

MAIN FEATURES

- Cast iron base with leveling feet
- Digital penetration measurement gauge 0.01 mm precision
- Micrometer vertical adjustment device
- Automatic zeroing
- Electronic release mechanism (22-T0029/E model only)

GENERAL DESCRIPTION

The cone penetrometer apparatus is used to determine the moisture content at which clay soils pass from a plastic to a liquid state and it is used also for the determination of undrained shear strength (CEN ISO/TS 17892-12). Two versions available: the standard 22-T0029/D and the semi-automatic 22-T0029/E.

The penetrometer has a cast iron base with leveling screws, digital penetration measurement gauge 0.01 mm precision, release button and automatic zeroing. It is provided with lead screw gear arrangement, leveling screws, Spirit level. The head can be clamped at any desired height. A rack and pinion and pointer assemble provides fine adjustment of the cone tip to sample. It incorporates a clutch mechanism which makes reading of penetration and subsequent resetting a simple and accurate operation. The semi-automatic model is complete with automatic controller, which automatically releases the plunger by a magnetic device, complete with micrometer vertical adjustment and adjustable electronic timer of the fall time. The electronic timer allows the user to set up and read the fall time of the needle during testing.

Penetration cones and sample cups has to be ordered separately. See accessories.

- Weight approx.: 8.5 kg

ORDERING INFO

22-T0029/D

Digital liquid limit penetrometer with micrometric vertical adjustment

22-T0029/E

Semiautomatic digital liquid limit penetrometer with micrometric vertical adjustment.
230 V, 50-60 Hz, 1 ph.

22-T0029/EZ

Semiautomatic digital liquid limit penetrometer with micrometric vertical adjustment.
110 V, 60 Hz, 1 ph

ACCESSORIES

Penetrometer accessories

22-T0029/1

Penetration test cone 30° angle

22-T0029/2

Cone test gauge to check the condition of the cone

22-T0029/3

Penetration sample cup 55 mm dia., 40 mm deep

86-D1332

Penetration sample cup 75 mm dia., 50 mm deep

22-T0029/4

Penetration test cone 60° angle, 60 g weight

22-T0029/5

Cone test gauge for cone 22-T0029/4

22-T0029/7

Penetration test cone 30° angle, 100 g weight

22-T0029/8

Penetration test cone 30° angle, 400 g weight

Other general lab apparatus needed to perform the test

22-T0040/4

Glass plate 500x500x10 mm

86-D1631

Flexible spatula 160 mm long

86-D1172

Evaporating dish 160 mm dia.

86-D1537

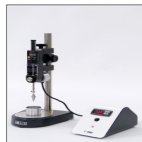
Wash bottle 500 ml cap.

86-D1346

Lever lid tin 1 l cap.

82-D1231

Stop watch



Penetrometer for liquid limit determination, semi-automatic model 22-T0029/E



Liquid limit penetrometer (model 22-T0029/D) with 22-T0029/1 cone and 22-T0029/3 cup



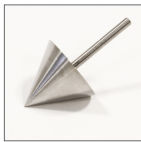
22-T0029/4, 22-T0029/7, 22-T0029/8



30° penetrometer cone, 22-T0029/1



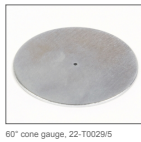
30° cone penetrometer (400g), 22-T0029/8



60° penetrometer cone, 22-T0029/4



30° cone gauge, 22-T0029/2



60° cone gauge, 22-T0029/5



30° cone penetrometer (100g), 22-T0029/7