

Cone penetrometer method for:

- **Liquid Limit determination.** STANDARDS: CEN ISO/TS 17892-12 / BS 1377:2 / NF P94-052-1
- **Shear Strength determination.** STANDARD: CEN ISO/TS 17892-06

LIQUID LIMIT

The test is based on the relationship between the moisture content at which clay soils pass from a plastic to a liquid state. This value is obtained from the penetration capacity of the standard cone allowed to free fall into the sample for a period of 5 seconds.

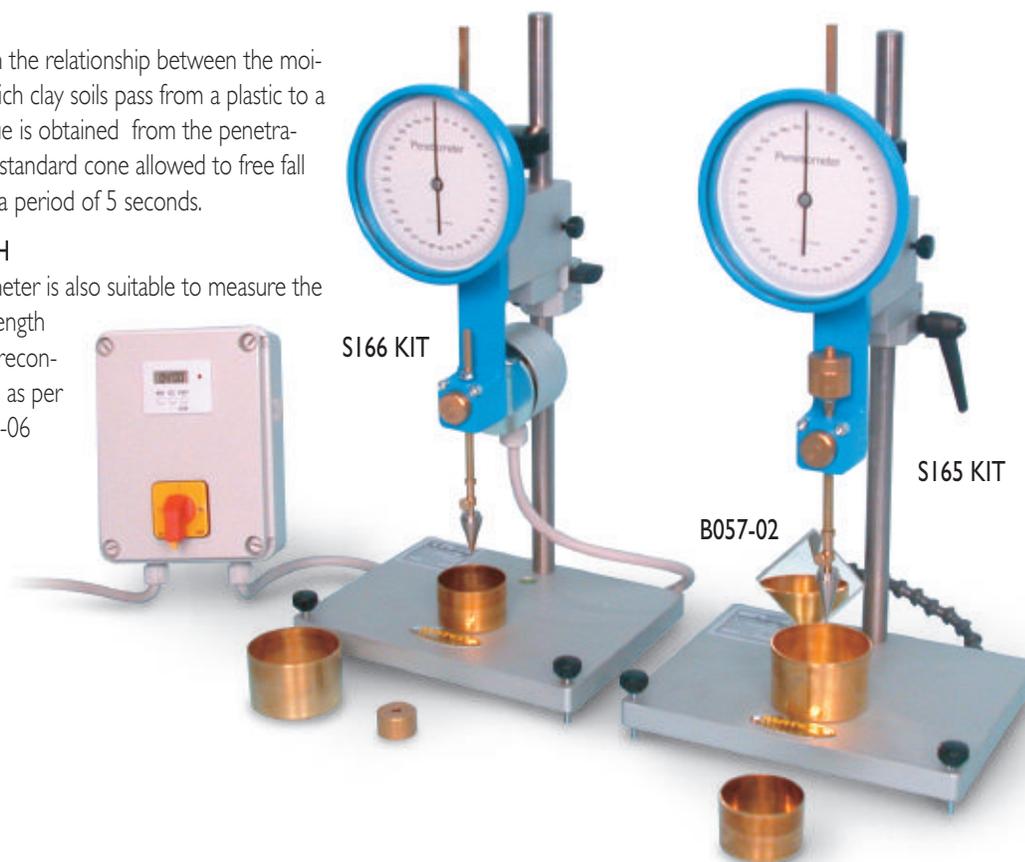
SHEAR STRENGTH

The cone penetrometer is also suitable to measure the shear undrained strength of undisturbed and reconstituted soil samples as per CEN ISO/TS 17892-06 Standard.

section S



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MODELS:

SI65 KIT

Cone dial penetrometer

The cone penetrometer consists of:

- Aluminium base with levelling screws and spirit level.
- Chromed vertical rod with "micrometric vertical displacement device"
- Dial gauge 150 mm diameter; graduated in 360°, division 0,1 mm
- Slider; brass made, with free fall, stop and release push button, automatic zero set.
- Stainless steel penetration test cone 35 mm long, 30° angle
- Weight 20 g.
- Two brass cups dia. 55x35 mm and 70x45 mm

Dimensions: 220x170x410 mm

Weight: 13 kg approx.

SI66 KIT

Semiautomatic cone dial penetrometer

Basically structured as mod. SI65KIT, but equipped with a magnetic controller device with electronic digital programmable timer that automatically releases the plunger head and ensures free falling of the cone during the 5-seconds test.

Supplied complete.

Power supply: 230V 1ph 50Hz 200W

Dimensions: 220x280x410 mm

Weight: 15 kg approx.

ACCESSORIES:

- SI66-03** TEST GAUGE, to check the condition of the cone point 30° angle.
- B057-02** MIRROR, to facilitate the height adjustment of the cone.
- SI66-04** TEST CONE 60° angle and 60g weight (liquid limit and shear strength tests).
- SI66-05** TEST GAUGE, to check the condition of the cone point 60° angle.
- SI66-06** WEIGHT, 320g to be added to the cone 30° angle, to get a total weight of 400g (shear strength test)

SPARE PARTS:

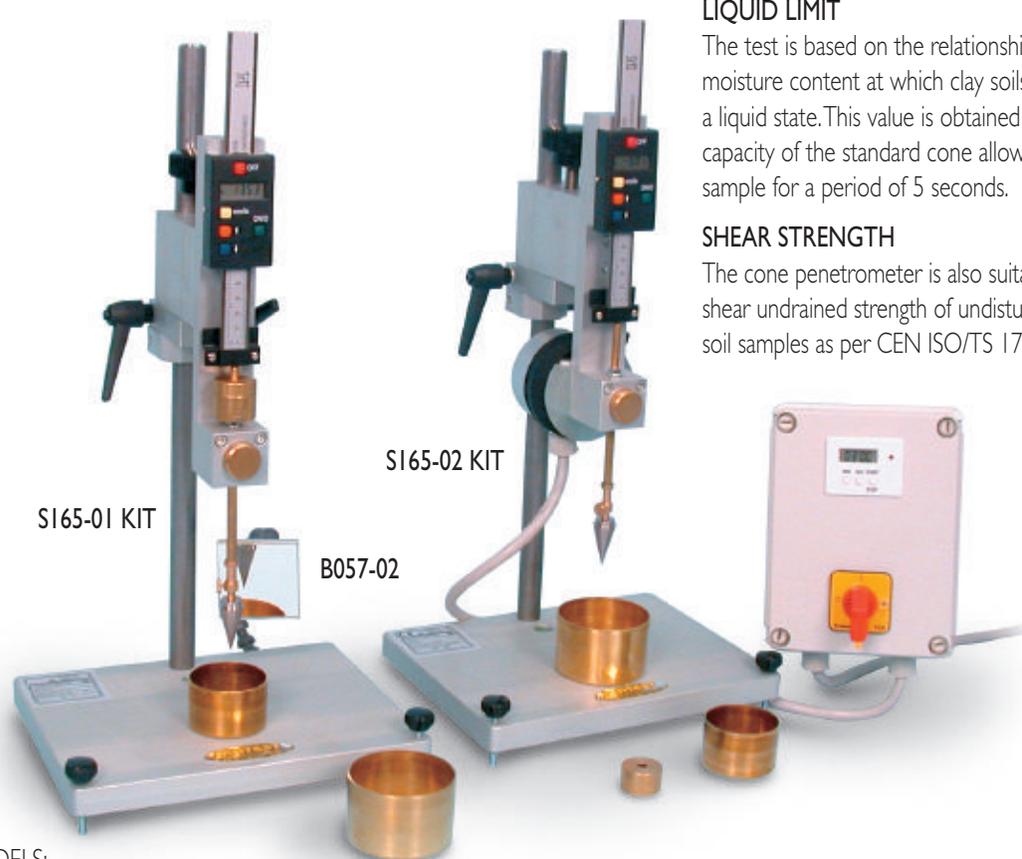
- SI66-01** Test cone 35 mm long and 30° angle.
- SI66-02** Weight 20g to be added to the cone 30° angle, to get a total weight of 100g
- V122-05** Brass cup dia. 55x35 mm
- V122-06** Brass cup dia. 70x45 mm



MATEST

Cone penetrometer method for:

- **Liquid Limit determination.** STANDARDS: CEN ISO/TS 17892-12 / BS 1377:2 / NF P94-052-1
- **Shear Strength determination.** STANDARD: CEN ISO/TS 17892-06



MODELS:

S165-01 KIT**Cone digital penetrometer**

The cone penetrometer consists of:

- Aluminium base with levelling screws and spirit level.
 - Chromed vertical rod with "micrometric vertical displacement device"
 - Digital readout of the penetration values.
 - Readings in mm and inch, with 0,1 mm resolution. LCD 5 digits display, with zero set in any position.
 - Power: 1,5V battery.
 - Slider, brass made, with free fall, stop and release push button, automatic zero set.
 - Stainless steel penetration test cone 35 mm long, 30° angle
 - Weight 20 g
 - Two brass cups dia. 55x35 mm and 70x45 mm
- Dimensions: 220x170x410 mm
Weight: 13 kg approx.

S165-02 KIT**Semiautomatic cone digital penetrometer**

Basically structured as mod. S165-01 KIT, but equipped with a magnetic controller device with electronic digital programmable timer that automatically releases the plunger head and ensures free falling of the cone during the 5-seconds test.

Supplied complete.

Power supply: 230V 1ph 50Hz 200W

Dimensions: 220x280x410 mm

Weight: 15 kg approx.

LIQUID LIMIT

The test is based on the relationship between the moisture content at which clay soils pass from a plastic to a liquid state. This value is obtained from the penetration capacity of the standard cone allowed to free fall into the sample for a period of 5 seconds.

SHEAR STRENGTH

The cone penetrometer is also suitable to measure the shear undrained strength of undisturbed and reconstituted soil samples as per CEN ISO/TS 17892-06 Standard.

ACCESSORIES:

- S166-03** TEST GAUGE, to check the condition of the cone point 30° angle.
- B057-02** MIRROR, to facilitate the height adjustment of the cone.
- S166-04** TEST CONE 60° angle and 60g weight (liquid limit and shear strength tests).
- S166-05** TEST GAUGE, to check the condition of the cone point 60° angle.
- S166-06** WEIGHT, 320g to be added to the cone 30° angle, to get a total weight of 400g (shear strength test)

SPARE PARTS:

- S166-01** Test cone 35 mm long and 30° angle.
- S166-02** Weight 20g to be added to the cone 30° angle, to get a total weight of 100g
- V122-05** Brass cup dia. 55x35 mm
- V122-06** Brass cup dia. 70x45 mm

