



Laboratory equipment co.,limited

Pocket Penetrometer 16-T0171

PRODUCT MANUAL



C-TECH LABORATORY EQUIPMENT CO., LTD

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Introduction

The 16-T0171 pocket penetrometer provides accurate measurements of the compressive soil strength. This 6-1/4" unit is spring-operated, and it measures strength in tons/sq. ft. or kg/sq. cm by pushing a 1/4" diameter loading piston into soil to a depth of 0.25". The end area is a 0.25" compressive load which is indicated by reading a scale on the piston barrel. A friction ring indicates maximum reading. Made of anodized aluminum. An Allen wrench and plastic carrying case with belt loop are included. A special 1in-diameter adapter foot is available as an option for use in very sensitive soils.

Usage Instructions

The 16-T0171 pocket penetrometer is easy to use with easy-to read results. Penetrometer is easy to use: push the indicating ring to the highest point touching the body and insert the piston until the calibration mark is level with the soil. The easy-to-read scale indicates strength from 0 to 4.5 tons per sq ft. The reading is maintained until manually reset.

Penetrometer is constructed from anodized aluminum and measures 6-1/4 "Lx 7/8" dia. Use an Allen wrench to loosen the stainless steel pin for cleaning.

Key Advantages

- The new pocket penetrometer, weighing less than 5 ounces, reduces the human error in classification of cohesive soils.
- The penetrometer can also be used with the torsional vane shear tester (TVST) for rapid estimation of the degree of internal friction of soil.
- The pocket penetrometer is now required by OSHA on most excavation jobs and its use is mandated in the OSHA manual titled "Construction Standards for Excavation".
- It is a spring-operated device used to measure compressive strength by pushing a 0.25" (6.4mm) diameter loading piston into the material being measured up to a calibration groove machined on the piston 0.25 from the end., "easy-to-chew" chunks.

Special Notes



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- Select test spots with a smooth surface.
- Hold the Pocket Penetrometer at right angles to the surface being tested.
- To minimise errors, take several readings near each other, discard those readings which may vary significantly from the majority and average the readings.
- When the 1in-diameter Adaptor Foot is used for very soft soils, divide the reading by 16 to obtain the correct compression strength of the soil. Push the foot into the soil the total thickness of the Adaptor Foot.



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