

## Pocket Penetrometer

The AMS pocket penetrometer provides accurate measurements of the compressive soil strength. This 6-1/4in unit is spring-operated, and it measures strength in tons/sq. ft. or kg/sq. cm by pushing a 1/4in diameter loading piston into soil to a depth of 0.25in. The end area is 0.05in<sup>2</sup>. Compressive load 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.

A pocket penetrometer is required by OSHA on all excavation jobs, and it can help protect you from costly lawsuits and construction delays.

### Usage Instructions:

The AMS 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.



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