

Soil Pocket Penetrometer

0700-500



0700-500

INTRODUCTION

This lightweight, direct reading penetrometer provides an instant estimate of a cohesive soil sample's unconfined compressive strength. The scale corresponds to equivalent unconfined compressive strength in tons per square foot (tsf) or kilograms per square centimeter (kg/cm²). This type of penetrometer is specified by OSHA for soil strength estimates when evaluating the stability and safety of trench excavations.

OPERATING INSTRUCTIONS

1. Position the black plastic indicator ring so it rests against the edge of the handle and is set at the lowest reading on the scale (0.0tsf or kg/cm²).
2. Hold the penetrometer at a right angle to the soil being tested. Grip the handle and, using steady pressure, slowly push the piston into the soil until the calibration groove is even with the surface of the sample. The calibration groove is machined into the piston 0.25in from the end.
3. The indicator ring will hold its position after the piston is released. Remove the piston from the soil and read the estimated unconfined compressive strength on the side of the ring closest to the handle. An error of up to 1/2 division on the scale, equivalent to 0–0.124tsf, is possible.
4. Several readings should be taken. Discard the readings that vary significantly, then average the remaining readings.

TECHNICAL SUPPORT

Contact Technical Support for assistance with applications, operation, maintenance, or repair.

- Telephone: 800-999-SOIL (7645) | 410-987-7330
- Email: techsupport@karolwarner.com