Field Inspection Testing Kit

LT-S0080 | Rapid preliminary field evaluation of cohesive soils

Pocket vane tester • Heavy-duty pocket penetrometer • Carrying case



2 instruments

VANE + POCKET PENETROMETER

1.8 kg

APPROXIMATE COMPLETE KIT WEIGHT

Manual operation • No electrical connection required

LT-S0080

Photographs and Kit Components

Vane tester, interchangeable blades and pocket penetrometer

The Field Inspection Testing Kit combines two manual instruments for rapid cohesive-soil checks. The vane supports approximate undrained shear-strength assessment; the pocket penetrometer provides preliminary information on consistency and penetration resistance.

POCKET PENETROMETER

The heavy-duty manual instrument gives preliminary information on consistency and penetration resistance.

VANE BODY

Handle rotation and the spring-loaded body support evaluation of shear resistance.



VANE BLADES

Different blade sizes are selected according to expected soil strength.

CARRYING CASE

The plastic case keeps instruments and tips together during field transportation.



Vane body, handle and interchangeable blades



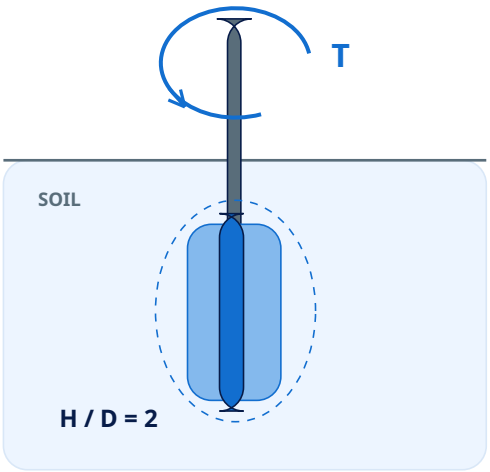
Pocket penetrometer and tips

LT-S0080

Vane Shear and Penetration Checks

Select location • Position instrument • Measure manually • Record assessment

VANE ROTATION + SOIL SHEAR RESISTANCE



MANUAL ROTATION • SPRING MEASUREMENT

SHEAR AROUND THE VANE BLADES

Preliminary checks in fine-grained cohesive soils

Evaluate approximate undrained strength

REPRESENTATIVE POCKET VANE DIAGRAM • NOT TO SCALE

Select Tip and Location

Choose a vane suited to expected soil resistance and a representative test location.

Measure with the Vane

Insert approximately 5-6 cm. Keep the shaft vertical and turn the handle in a controlled way.

Check Penetration

Use the pocket penetrometer at a separate suitable location to assess consistency and resistance.

As the vane turns, the soil resists movement along the shear surface around its blades. The pocket penetrometer provides preliminary information from resistance to tip penetration. Record each reading separately with the instrument, selected tip and test location.

Vane and Extension Selection

Select interchangeable blades according to expected soil strength. The vane height-to-diameter ratio is approximately 2. For surface checks, insert the vane approximately 5-6 cm into the soil.

An optional extension rod supports deeper test locations and is ordered separately. Keep the shaft vertical and maintain suitable confinement around the tested soil.

Two Complementary Field Checks

The vane assesses approximate undrained shear strength, while the heavy-duty pocket penetrometer indicates consistency and penetration resistance. Both instruments operate manually.

Use readings for preliminary field assessment and comparative checks. Retain soil type, moisture condition, tip selection and test depth with the measurement record.

LT-S0080

Technical Specifications and Kit Contents

LT-S0080 | Compact manual field inspection set

Parameter / Component	Description / Specification
Product Code	LT-S0080
Vane Instrument	Manual pocket vane tester
Penetrometer	Heavy-duty pocket penetrometer
Vane Blades	Interchangeable blades in different sizes
Vane Geometry	Approximate height-to-diameter ratio: 2
Surface Vane Application	Approximately 5-6 cm penetration
Extension Rod	Optional • Ordered separately
Transport and Storage	Plastic carrying case
External Dimensions	24 × 21 × 5 cm
Approximate Complete Weight	1.8 kg

Record the Instrument and Tip with Each Reading

Record vane and penetrometer readings separately. Note soil conditions, location, depth and selected tip; interpret results as preliminary field assessment.

Field Inspection Workflow

01
Select
Choose a tip suited to expected soil resistance.

02
Position
Place the instrument at a suitable test location.

03
Measure
Measure manually using the instrument method.

04
Record
Record readings and field conditions together.

Product Page | liyatest.com.tr/en/urun/field-inspection-testing-kit/