Speedy Moisture Test Set

LT-A0072 | Moisture determination by calcium carbide gas pressure

20 g specimen • Direct percentage reading • Portable test set



20 g

SPECIMEN CAPACITY

0-20%

MOISTURE MEASURING RANGE

ASTM D4944 • AASHTO T217

LT-A0072

Photographs and Set Components

Measuring vessel, gauge, balance and specimen preparation equipment

The Speedy Moisture Test Set provides rapid field determination of moisture in soil and suitable granular materials. Gas pressure generated by the reaction between specimen water and calcium carbide is used to evaluate moisture content.

VESSEL AND GAUGE

Pressure generated by the reaction inside the vessel is monitored through the measuring arrangement.

PRECISION BALANCE

Allows the 20 g test specimen to be prepared by weighing.



MEASURING SPOON

An accessory for specimen and reagent preparation.

CLEANING BRUSH

Supports cleaning of the test equipment after use.



Measuring vessel and pressure gauge



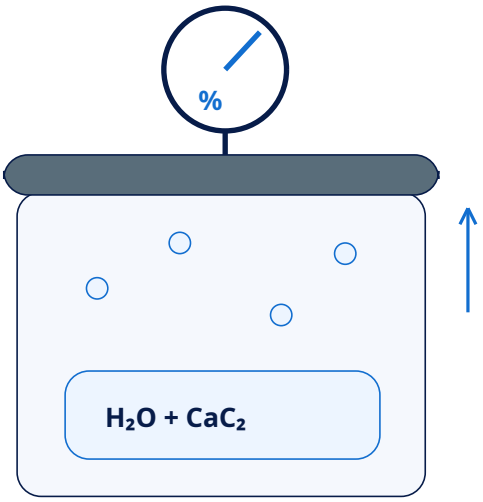
Balance and measuring container

LT-A0072

From Reaction Pressure to Moisture Reading

Weigh • Prepare to method • React in sealed vessel • Read result

SPECIMEN WATER + CALCIUM CARBIDE = GAS PRESSURE



WATER + CALCIUM CARBIDE = ACETYLENE GAS

MEASUREMENT: GAS PRESSURE INSIDE THE VESSEL

20 g specimen • 0-20% measuring range

Read percentage moisture on the instrument gauge

REPRESENTATIVE GAS PRESSURE METHOD DIAGRAM • NOT TO SCALE

Weigh the Specimen

Prepare a representative specimen. Weigh the required 20 g using the precision balance.

Conduct the Reaction

Prepare reagent and specimen to the manufacturer's procedure; shake the sealed vessel as instructed.

Read and Record

Meet the method's reading conditions. Record moisture and specimen information.

Water in the specimen reacts with calcium carbide to produce acetylene gas. Gas pressure inside the sealed vessel is related to moisture content. With the specified specimen quantity and calibrated measuring arrangement, pressure is evaluated as percentage moisture.

Field Moisture Control and Preparation

Rapid moisture checks can be performed on soil, sand, clay, aggregate and suitable granular materials. Prepare the specimen according to the method and weigh a representative quantity accurately before transfer.

Highly plastic specimens that do not break down readily can limit contact between water and reagent. Follow the method for specimen preparation and any required comparison with laboratory measurements.

Complete Portable Test Set

The set includes a precision balance, measuring spoon and container, calibration kit, one container of calcium carbide, cleaning brush and carrying case. Calibration equipment supports checks of the measuring arrangement.

Store the reagent dry in suitable packaging. Follow the manufacturer's instructions for chemical handling, opening the pressure vessel and cleaning the equipment.

LT-A0072

Technical Specifications and Set Contents

LT-A0072 | Rapid field moisture testing by calcium carbide method

Parameter / Component	Description / Specification
Product Code	LT-A0072
Measuring Method	Calcium carbide gas pressure method
Specimen Capacity	20 g
Moisture Measuring Range	0-20%
Result Reading	Percentage moisture on the gauge
Specimen Preparation	Precision balance • Measuring spoon and container
Checking and Cleaning	Calibration kit • Cleaning brush
Reagent and Transport	1 container calcium carbide • Carrying case
Set Dimensions	51 × 38 × 20 cm
Approximate Set Weight	10 kg

Record Specimen Quantity and Measuring Conditions Together

Record specimen identity, mass and moisture reading. Follow manufacturer instructions for reagent, calibration and pressure-vessel use; report the result with the test method.

Rapid Moisture Test Workflow

01
Weigh
Prepare a representative 20 g specimen.

02
Prepare
Prepare reagent and vessel to the method.

03
Measure
Conduct the sealed-vessel reaction as instructed.

04
Record
Link percentage moisture to specimen identity.

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