Air Content Meter

LT-CE0046 | Mortar air content by the pressure method

1 litre specimen chamber • Manual pump • Direct percentage reading



1 litre

SPECIMEN CHAMBER VOLUME

3.5 kg

APPARATUS WEIGHT

EN 1015-7 • EN 413-2 • EN 459-2

LT-CE0046

Photograph and Measuring Components

Gauge, pump and lid connections

LT-CE0046 determines the air content of fresh cement and masonry mortars by the pressure method. Initial pressure in the upper air chamber is transferred to the specimen chamber; the calibrated gauge indicates air content as a percentage.

GAUGE

The calibrated gauge allows air content to be read as a percentage after the measuring sequence.

MANUAL PUMP

The pump at the top establishes the initial pressure in the air chamber.



SPECIMEN CHAMBER

The 1 litre cast aluminium chamber holds the fresh mortar specimen prepared according to the method.

LID AND CLAMP

The lid and securing arrangement join the chambers. Check the sealing surface and connection before measurement.



Gauge and manual pump detail



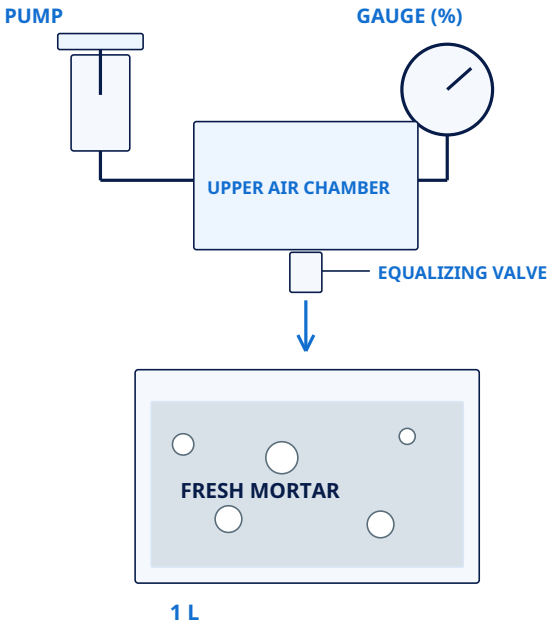
Specimen chamber and lid clamp detail

LT-CE0046

From Pressure to Air Content

Prepare specimen • Establish initial pressure • Read air content

AIR CHAMBER • PRESSURE TRANSFER • MORTAR



SPECIMEN CHAMBER: 1 LITRE

RESULT: AIR CONTENT (%)

OPERATING PRINCIPLE • REPRESENTATIVE SECTION • NOT TO SCALE

Prepare the Specimen

Fill and compact fresh mortar according to the method. Clean the rim and sealing surface, then secure the lid.

Establish Initial Pressure

Use the manual pump to establish initial pressure in the upper air chamber. Check the setting and sealing.

Transfer Pressure and Read

Use the equalizing valve to connect the upper chamber to the specimen chamber. Read air content as prescribed.

The pressure method establishes pressure equilibrium between the upper air chamber and the specimen chamber. Compression of air within the mortar is reflected at the gauge. The calibrated gauge indicates the result as an air content percentage.

Specimen and Sealing

Prepare the 1 litre specimen chamber using the filling and compaction conditions of the selected method. Remove mortar residue from the chamber rim and sealing surface.

Secure the lid connections; check valve positions and sealing. Apply consistent specimen preparation and initial pressure adjustment for each measurement.

Method and Result Recording

EN 1015-7 covers determination of air content in fresh mortar. Its Method A pressure procedure is specified for mortars with air content below 20%.

Record specimen identity, the applied method and the air content percentage. For tests under EN 413-2 and EN 459-2, follow the relevant specimen preparation and evaluation requirements.

LT-CE0046

Technical Specifications and Test Control

LT-CE0046 • Air content meter with 1 litre chamber

Specification	Technical Information
Product Code	LT-CE0046
Test Purpose	Determination of air content in fresh mortar
Measuring Method	Pressure method
Specimen Applications	Fresh cement and masonry mortars
Specimen Chamber Volume	1 litre
Specimen Chamber Material	Cast aluminium
Pressure Generation	Integrated manual pump
Pressure Transfer	Pressure equalizing valve
Result Reading	Air content (%) from the calibrated gauge
External Dimensions	200 × 200 × 320 mm
Weight	Approximately 3.5 kg
Relevant Standards	EN 1015-7, EN 413-2, EN 459-2

Specimen Preparation and Pressure Checks

Match filling, compaction and initial pressure to the test method. Keep sealing surfaces clean; release pressure before opening the lid. Record results as a percentage.

From Specimen to Air Content Result

01
Prepare
Fill and compact according to the method.

02
Secure
Clean the sealing surface and secure the lid.

03
Pressurize
Set initial pressure, then equalize.

04
Read
Record air content as a percentage.

Product Page | liyatest.com.tr/en/urun/air-content-meter/