Automatic Blaine Fineness Apparatus

LT-CE0010 | Specific surface area by air permeability

Microprocessor control • Automatic timing • Integrated printer



1 / 2 cells

MEASURING CELL OPTIONS

40 kg

APPARATUS WEIGHT

EN 196-6 • ASTM C204 • AASHTO T153

LT-CE0010

Photograph and Control Components

Measuring section, U-tube manometer and operator interface

LT-CE0010 automatically monitors air passage through a prepared cement bed. The operator prepares the specimen and enters the required data; the apparatus evaluates flow time to calculate specific surface area.

MEASURING SECTION

Connect the prepared specimen cell to the air circuit. Check bed preparation and air tightness before testing.

APPARATUS BODY

Houses measuring and control components. Position the apparatus on a stable, level laboratory surface.



CONTROL PANEL

Enter specimen and calibration information. The microprocessor manages timing and calculation steps.

U-TUBE MANOMETER

Liquid columns support monitoring of air passage. The automatic system converts timing into measurement data.



Photograph detail of the measuring section

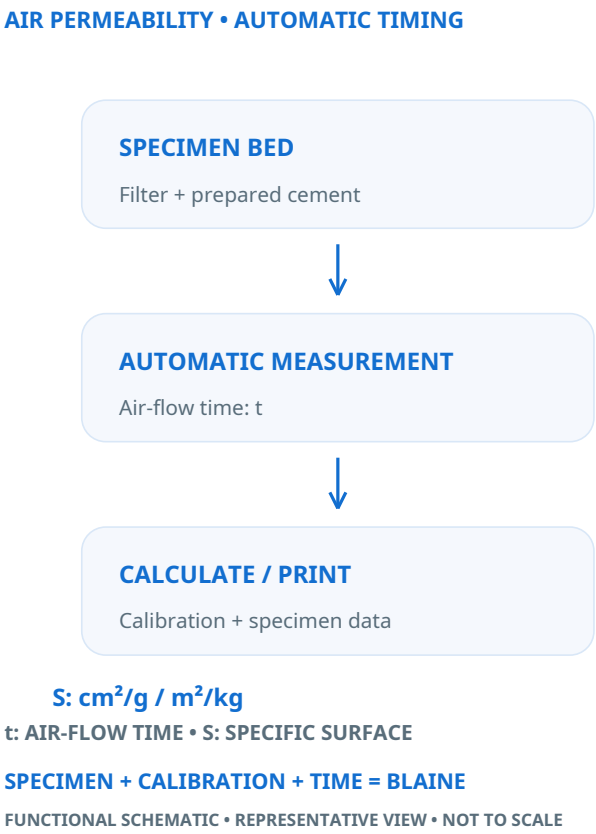


Photograph detail of the control panel

LT-CE0010

From Automatic Timing to Blaine Fineness

Prepare specimen • Measure air passage • Calculate and record specific surface



Prepare and Enter Data

Prepare the specimen bed in the cell according to the method. Enter specimen and calibration data in the controller.

Automatic Timing

Start the test. The system monitors air passage through the bed and determines time without a manual stopwatch.

Calculate and Print

The microprocessor calculates Blaine fineness. Print the result with specimen information and measuring units.

Blaine fineness expresses cement specific surface area per unit mass. Results use cm^2/g or m^2/kg. Automatic timing still requires consistent specimen preparation and appropriate calibration.

Cell Selection and Comparison

The single-cell configuration serves routine testing. A dual-cell arrangement supports evaluation of two specimens within the same working process.

Keep preparation conditions consistent when comparing reference cement and a production specimen. Select the cell count for the required apparatus configuration.

Calibration and Result Records

Use a reference material suitable for the method. Check requirements for density, porosity, temperature and cell air tightness.

LT-CE0006 calibration sand is offered in two 100 ml bottles. Match certified reference values to the test procedure. Record specimen identity, result units and calibration information.

LT-CE0010

Technical Specifications and Accessories

LT-CE0010 • Automatic Blaine measuring system

Specification	Technical Information
Product Code	LT-CE0010
Measuring Principle	Blaine air permeability
Measured Property	Specific surface area per unit mass
Control	Microprocessor
Timing and Calculation	Automatic air-flow timing and Blaine calculation
Cell Options	1 or 2 measuring cells
Result Recording	Integrated printer
Apparatus Weight	40 kg
Standards	EN 196-6, ASTM C204, AASHTO T153
Set Components	Manometer liquid, filter papers, calibration plunger
Filter Paper Pack	Ø41 mm; 500 pieces
Calibration Accessory	LT-CE0006; 100 ml × 2 bottles

Preparation and Calibration Checks

Check the cell connection and specimen bed. Verify reference material data; archive printouts with measuring units and specimen identity.

From Specimen to Recorded Blaine Result

01
Prepare
Fit filters and the specimen bed in the cell.

02
Identify
Enter specimen and calibration data.

03
Measure
Start automatic air-flow measurement.

04
Record
Calculate Blaine fineness and retain the printout.

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