Wet Sieving Apparatus

LT-CE0090 | Fly ash and hydraulic cement fineness testing

45 µm sieve • Controlled water spray • Pressure gauge



45 µm

SIEVE OPENING • 0.045 mm

2 kg

APPARATUS WEIGHT

EN 451-2 • ASTM C430 • AASHTO T192

LT-CE0090

Photograph and Water Circuit Components

Pressure gauge, spray head and water fittings

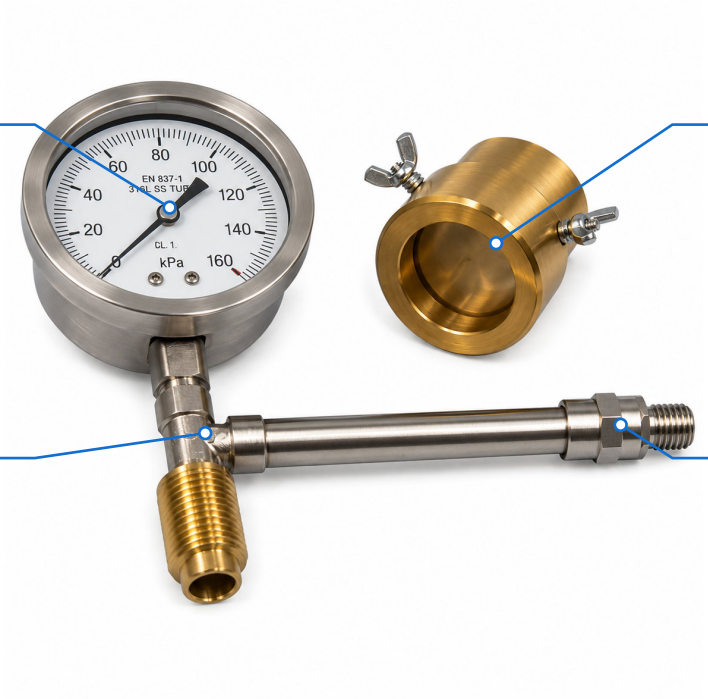
LT-CE0090 washes a specimen through a 45 µm sieve for residue evaluation. The spray head directs water; the pressure gauge supports monitoring water pressure during the test.

PRESSURE GAUGE

The Ø80 mm gauge monitors water pressure. Check the test pressure according to the selected method.

SPRAY HEAD

The Ø17.5 mm nozzle directs water through 17 holes of Ø0.5 mm. Check hole cleanliness before testing.



WATER CIRCUIT

The connection line links the gauge and spray arrangement to the water supply. Check for leakage.

FITTINGS AND CONNECTIONS

Water connection fittings support apparatus installation. Tighten and secure connections appropriately.



Photograph detail of the pressure gauge

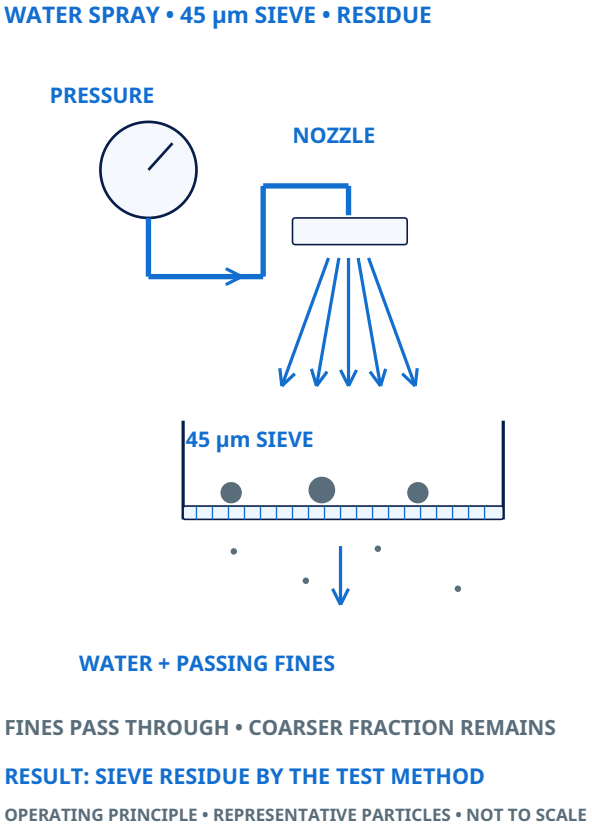


Spray head and connection detail

LT-CE0090

From Water Washing to Sieve Residue

Prepare specimen • Wash under controlled conditions • Evaluate retained material



Prepare Specimen and Sieve

Determine specimen quantity for the method. Check sieve cleanliness, integrity and calibration requirements.

Wash with Controlled Water

Check the nozzle and gauge. Wash under the pressure, duration and spray conditions required by the method.

Evaluate Residue

Dry and weigh retained material according to the procedure. Apply required corrections and report residue.

Wet sieving at 45 µm separates passing fines from material retained on the sieve. Evaluate the residue percentage according to the method. Washing conditions, sieve cleanliness and calibration data affect repeatability.

Pressure and Nozzle Checks

The Ø17.5 mm spray nozzle has 17 holes of Ø0.5 mm. The pressure gauge diameter is Ø80 mm. Verify that holes are clear and connections are leak-free.

Apply the pressure and washing duration specified by the selected standard. Wash the specimen consistently and monitor sieve condition and spray distribution during testing.

Fly Ash and Cement Methods

EN 451-2 addresses fly ash fineness by wet sieving on a 0.045 mm sieve. ASTM C430 and AASHTO T192 are used for hydraulic cement fineness by the 45 µm sieve.

Record specimen identity, initial quantity and dried residue. Apply sieve calibration or correction required by the method. Report results with the sieve opening and test procedure.

Technical Specifications and Test Control

LT-CE0090 • 45 µm sieve and water spray arrangement

Specification	Technical Information
Product Code	LT-CE0090
Test Purpose	Fineness and residue determination by wet sieving
Specimen Applications	Fly ash and hydraulic cement
Sieve Opening	45 µm; 0.045 mm
Sieve Material	Stainless steel
Spray Nozzle Diameter	Ø17.5 mm
Nozzle Holes	17 holes; Ø0.5 mm
Pressure Gauge Diameter	Ø80 mm
Water Supply Connection	Fittings and connection components
External Dimensions	250 × 150 × 150 mm
Weight	2 kg
45 µm Test Methods	EN 451-2, ASTM C430, AASHTO T192

Sieve, Nozzle and Pressure Checks

Keep the sieve and nozzle holes clean. Match pressure, washing duration and calibration to the method; record residue results with the test details.

From Specimen to Sieve Residue Result

01
Prepare
Prepare the specimen and clean 45 µm sieve.

02
Check
Verify water connection, nozzle and pressure.

03
Wash
Apply the required spray and time conditions.

04
Evaluate
Dry and weigh residue, then report the result.

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