Pneumatic Slump Test Set

LT-C0095 | Controlled vertical cone lifting and slump measurement

Pneumatic lifting • Standard slump cone • Complete test equipment



55 × 80 × 145

OVERALL DIMENSIONS • cm

40 kg

SET WEIGHT

ASTM C143/C143M • AASHTO T 119M/T 119 • Field and laboratory

LT-C0095

Photographs and Test Components

Slump cone, lifting guides, base tray and pneumatic control

LT-C0095 assesses fresh concrete consistency by measuring slump. The pneumatic mechanism lifts the cone vertically in a controlled manner. The set combines filling and compaction accessories with the basic equipment needed for slump measurement.

CONE AND FUNNEL

Metal slump cone forms the specimen. The filling funnel supports controlled concrete placement.

VERTICAL GUIDES

Guide the lifting mechanism. Help limit sideways movement of the cone.



BASE TRAY

Flat working surface supports cone and specimen. Check the tray and supporting surface before testing.

PNEUMATIC CONTROL

Controls cone lifting. Start the controlled lift after specimen preparation is complete.



Cone, filling funnel and lifting connection



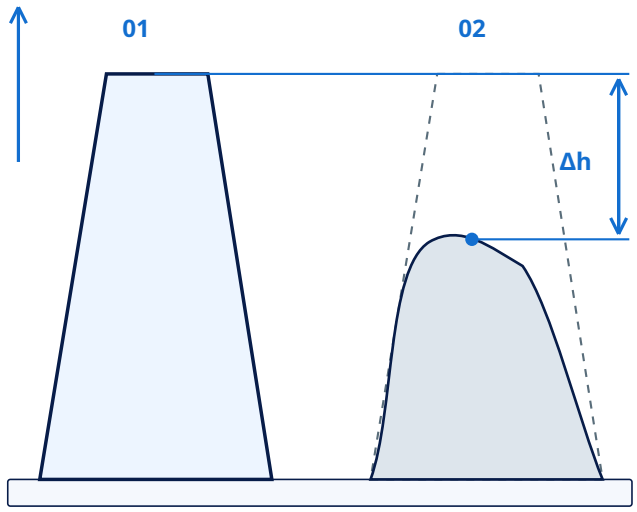
Base tray, lifting cylinder and control region

LT-C0095

Vertical Lifting and Slump Measurement

Fill • Rod • Lift cone vertically • Measure the slump difference

CONE HEIGHT AND SLUMPED CONCRETE



01: H_0 02: H $\Delta h = H_0 - H$

REFERENCE LEVEL TO DISPLACED ORIGINAL TOP CENTRE

SLUMP: Δh | RESULT UNIT: mm

OPERATING PRINCIPLE • SCHEMATIC VIEW • NOT TO SCALE

Prepare the Specimen

Secure the cone on the base. Fill in the required layers and compact using the tamping rod.

Lift the Cone Vertically

Strike off the top and remove the filling funnel. Use pneumatic lifting without disturbing the concrete.

Measure the Slump

Measure vertically from original cone height to the displaced original centre of the specimen top.

Fresh concrete subsides under its own weight when the cone is lifted. Measure the vertical difference between the original cone top level and the displaced original centre of the specimen top surface. Record the result with specimen identification and observed slump shape.

Specimen Preparation and Lifting

Place the tray on a flat, firm surface. Prepare the cone and contact surfaces, and hold the cone securely during filling.

The ASTM/AASHTO procedure uses three layers, each rodded 25 times. Strike off the surface and remove excess material around the cone. Check lifting duration against the method; avoid lateral or twisting movement.

Set Contents and Test Records

The set includes slump cone, base tray, filling funnel, tamping rod, rubber mallet and steel ruler. The operator performs the specimen preparation steps.

Record specimen identification, test time, slump value and shape. For shear or collapse, follow the method rules for interpretation and repeat testing. Review the consistency result together with the mix information.

LT-C0095

Technical Specifications and Workflow

LT-C0095 • Pneumatic Slump Test Set | ASTM C143/C143M

Specification	Technical Information
Product Code	LT-C0095
Test	Fresh concrete consistency determined by slump
Lifting System	Pneumatic; controlled vertical cone lifting
Working Surface	Base tray and supporting frame
Specimen Mould	Standard metal slump cone
Filling Accessory	Filling funnel
Compaction Accessories	Tamping rod and rubber mallet
Measuring Accessory	Steel ruler
Overall Dimensions	55 × 80 × 145 cm
Weight	40 kg
Application	Field and laboratory
Standards	ASTM C143/C143M; AASHTO T 119M/T 119

Vertical Lift and Measurement Point

Complete filling and rodding, then remove the funnel. Lift vertically; measure slump to the displaced original centre of the specimen top and record it.

From Fresh Concrete Specimen to Slump Result

01
Prepare
Level the tray and secure the cone.

02
Fill
Fill in layers and rod according to the method.

03
Lift
Lift the cone vertically at a controlled rate.

04
Measure
Record slump difference and specimen details.

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