Sand Absorption Cone and Tamper

LT-A0052 | Preparation aid for fine aggregate density and absorption tests

Two-piece set • Plated steel • Manual operation



9 × 9 × 18 cm

COMPLETE SET DIMENSIONS

0.5 kg

APPROXIMATE COMPLETE SET WEIGHT

EN 1097-6 • ASTM C128 • SSD sample preparation for fine aggregate

LT-A0052

Photograph and Set Components

Conical mould, plated body, tamper handle and contact face

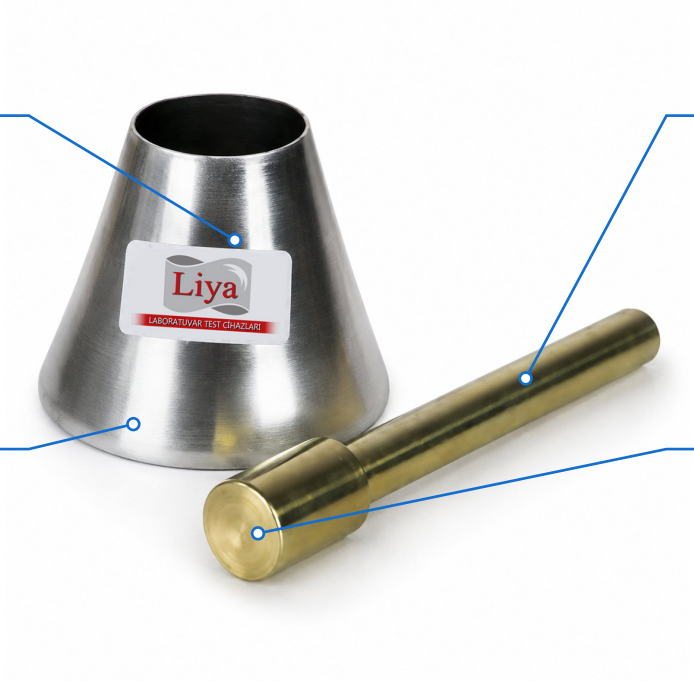
LT-A0052 assists the check of saturated surface-dry condition in fine aggregate. Tamp the specimen in the cone according to the method, then observe its shape after lifting the mould. The set includes a cone and tamper.

CONICAL MOULD

Shapes the fine aggregate specimen. Fill through the open upper section.

PLATED BODY

Plated steel construction provides corrosion protection during laboratory use.



TAMPER HANDLE

Allows manual control of the tamper. Follow the applicable test procedure.

TAMPER CONTACT FACE

Used to place the specimen in the cone as prescribed by the method.



Conical mould and plated steel body



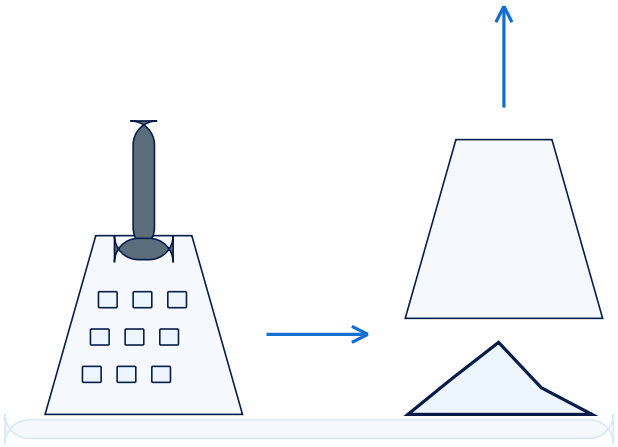
Tamper face in contact with the specimen

LT-A0052

Cone Lifting and SSD Condition Check

Prepare sample • Fill cone • Tamp • Lift vertically and observe

CONE + TAMPER + FINE AGGREGATE



MANUAL SAMPLE PREPARATION

VERTICAL LIFT AND SHAPE OBSERVATION

SSD: WATER IN PORES, NO FREE SURFACE WATER

OBSERVATION: SHAPE AFTER CONE REMOVAL

OPERATING PRINCIPLE • REPRESENTATIVE SAMPLE BEHAVIOUR • NOT TO SCALE

Prepare the Sample

Condition the fine aggregate by the method. Reduce surface moisture in a controlled manner.

Fill and Tamp

Place the cone on a suitable surface and fill it. Tamp the specimen according to the method.

Lift and Observe

Lift the cone vertically. Assess the shape change against the SSD criterion in the applied method.

Specimen behaviour after cone removal provides information about surface moisture. Excess surface water can cause the moulded shape to remain. The slump behaviour defined by the method is used for the SSD check; evaluate it with sample type and preparation conditions.

Why the SSD Condition Matters

In saturated surface-dry condition, aggregate pores contain water while free moisture has been removed from particle surfaces. This supports weighing under the required conditions for density and absorption tests.

ASTM C128 covers fine aggregate relative density and absorption. EN 1097-6 describes aggregate particle density and water absorption methods. The set assists specimen preparation for these tests.

Consistent Sample Preparation

Control surface drying. Excessive drying may remove water from the pores and move the sample away from the intended SSD condition.

Place the cone on a clean surface and use the same method for tamping and lifting. Clean and dry components after testing. Once the SSD check is completed, proceed to the relevant weighing and pycnometer steps.

LT-A0052

Technical Specifications and Product Codes

LT-A0052 • Complete set, separate cone and separate tamper

Product Code	Product	Dimensions	Weight
LT-A0052	Cone and tamper set	9 × 9 × 18 cm	0.5 kg
LT-A0052/1	Sand absorption cone	-	0.3 kg
LT-A0052/2	Tamper	-	0.2 kg

Set Specification	Value / Description
Sample Type	Fine aggregate
Primary Function	Check of saturated surface-dry condition
Set Contents	Conical mould and tamper
Material	Plated steel
Operation	Manual / no electrical power required
Observation	Specimen shape after cone removal
Role in Testing	Preparation for density and absorption tests
Related Methods	EN 1097-6 / ASTM C128

Apply the SSD Observation Criteria of the Method

Follow the method for tamping and assessing specimen shape after cone removal. The set does not directly give an absorption value; it prepares the sample for subsequent weighing and calculations.

From Fine Aggregate to SSD Sample Preparation

01
Prepare
Condition the sample and reduce surface moisture.

02
Fill
Fill the cone and tamp by the method.

03
Lift
Lift the cone vertically and observe sample shape.

04
Proceed
Continue preparation or weighing based on SSD check.

Product Page | liyatest.com.tr/en/urun/sand-absorption-cone-and-tamper/