Specific Gravity Test Set

LT-C0066 | Specimen weighing in air and water

Rigid frame • Cube holder • Water container • Wire basket



40 × 50 × 98

SET OVERALL DIMENSIONS (cm)

25 kg

SET WEIGHT

EN 1097-6 • EN 12390-7 • For use with an underhook balance

LT-C0066

Photographs and Components

Weighing frame, water container, suspension and specimen accessories

The set provides a working arrangement for hydrostatic weighing of concrete and aggregate specimens. Mass readings in air and water support volume and density calculations under the selected test method. The balance is ordered separately.

BALANCE PLATFORM

The upper platform provides an arrangement for use with a digital balance equipped for underhook weighing.

WEIGHING FRAME

The rigid structure supports the suspended weighing arrangement and placement of the water container.

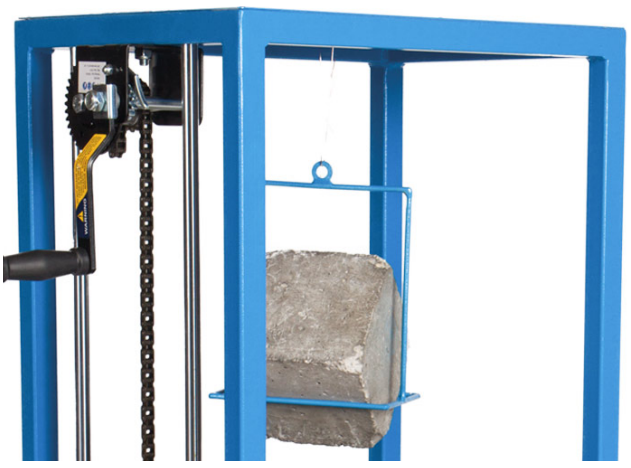


WATER CONTAINER

Fully immerse the specimen; neither the holder nor the specimen should contact the container walls or base.

SPECIMEN SUSPENSION

Use the holder for concrete cubes and the wire basket for aggregate; remove trapped air bubbles.



Balance platform and hydrostatic weighing area



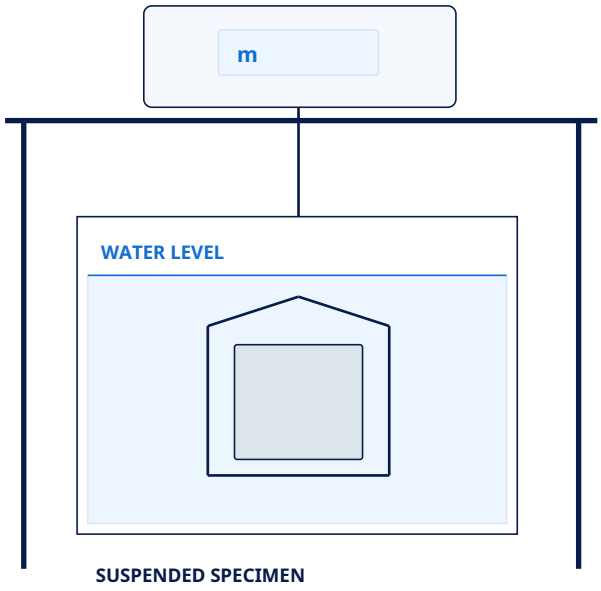
Stainless steel wire basket for aggregate

LT-C0066

Operating Principle and Measurement

Prepare • Weigh in air • Weigh in water • Calculate volume and density

HYDROSTATIC WEIGHING ARRANGEMENT



Weigh in Air

Prepare the specimen to the selected method. Record its mass in air in the required moisture condition.

Weigh in Water

Tare the suspension and holder. Fully immerse the specimen; avoid contact and trapped air bubbles.

Calculate and Record

Determine volume from the hydrostatic readings. Calculate density using mass in the selected specimen condition.

Buoyancy reduces the apparent mass of an immersed specimen. Determine volume using the air and water readings defined by the test method. Record suspension tare, water temperature and specimen moisture condition as part of the measurement.

Concrete and Aggregate Tests

EN 12390-7 addresses hardened concrete density. The cube holder keeps the concrete specimen in a stable position during immersed weighing.

Use the wire basket for the applicable coarse aggregate method under EN 1097-6. Complete specimen preparation and saturation steps according to the selected method.

Balance and Measurement Control

A digital balance with underhook weighing is ordered separately. Recommended readability is 0.1 or 0.5 g; select capacity for the specimen and suspended load.

Record water temperature. Zero the balance and keep the suspension free. Fully immerse the specimen, remove air bubbles and record the stable reading.

LT-C0066

Specifications and Use Workflow

LT-C0066 set and specimen weighing accessories

Product Code	Product / Component	Overall Size (cm)	Weight (kg)
LT-C0066	Specific Gravity Test Set	40 × 50 × 98	25
LT-C0066/1	Specific Gravity Frame	40 × 50 × 98	25
LT-C0066/2	Cube Specimen Holder	23 × 13 × 20	2.5
LT-C0066/3	Plastic Water Container (Small)	28 × 38 × 30	0.3
LT-C0066/4	Plastic Water Container (Large)	40 × 40 × 30	0.35
LT-G0660	Wire Basket	Ø20 × 20	1.5

Operating Feature	Value / Description
Weighing Method	Hydrostatic weighing in air and water
Balance Compatibility	Digital balance with underhook weighing
Recommended Balance Readability	0.1 or 0.5 g; balance ordered separately
Wire Basket Aperture	3.35 mm
Related Test Standards	EN 1097-6 / EN 12390-7

Specimen Condition and Free Suspension

Define specimen moisture condition under the selected test method. Account for suspension tare during immersed weighing; check that the specimen and holder do not touch the container.

Hydrostatic Weighing and Recording

01
Prepare
Prepare the specimen; record water temperature.

02
Weigh in Air
Measure mass in the required specimen condition.

03
Weigh in Water
Tare; weigh with complete immersion.

04
Calculate and Record
Calculate volume and density; record the results.

Product Page | liyatest.com.tr/en/urun/specific-gravity-test-set/