Glass Jar Pycnometer

LT-G0075 | Glass jar and conical metal top for fine aggregate

Transparent body • Removable top • Air vent opening



Ø100 × 200 mm

OVERALL DIMENSIONS

0.5 kg

APPROXIMATE WEIGHT

ASTM C128 • AASHTO T 84 • Fine aggregate relative density and absorption

LT-G0075

Photograph and Pycnometer Components

Conical top, upper opening, connecting rim and glass jar

The glass jar pycnometer is used in relative density and absorption testing of fine aggregate. Its transparent body reveals water level and trapped air bubbles. The removable metal top facilitates filling and cleaning.





Conical metal top and upper opening detail



Transparent glass jar and lower section detail

LT-G0075

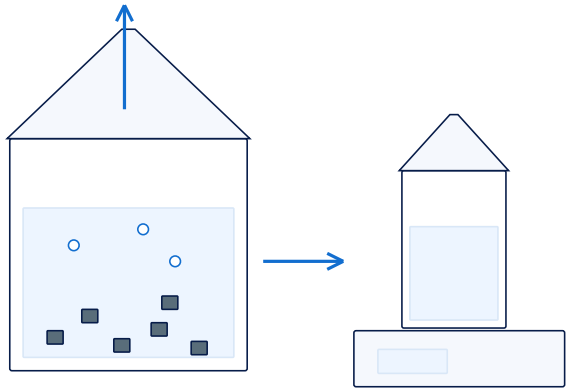
Pycnometer Weighing and Density Calculation

Prepare sample • Remove trapped air • Record required masses

SAMPLE + WATER • AIR REMOVAL • WEIGHING

SAMPLE + WATER

WEIGHING SETUP



SAME FILL LEVEL / CONTROLLED TEMPERATURE

SAMPLE: FINE AGGREGATE PREPARED BY THE METHOD

RESULT: RELATIVE DENSITY AND ABSORPTION

OPERATING PRINCIPLE • REPRESENTATIVE JAR • NOT TO SCALE

Condition the Sample

Apply drying, soaking and saturated-surface-dry preparation as prescribed. Record the required masses.

Fill and Remove Air

Add sample and water. Agitate to remove air between particles, then adjust to the required fill level.

Weigh and Calculate

Dry the exterior and weigh. Use water-filled pycnometer and specimen masses together in the method calculation.

The pycnometer method uses water displacement by the sample. Compare the water-filled vessel, the vessel containing sample and water, and required specimen masses. Complete dry and saturated-surface-dry records for relative density and absorption calculations.

Air and Temperature Control

Air between particles affects the displacement calculation. The transparent jar allows bubbles to be observed. Complete air removal as prescribed by the method.

Maintain fill level and water temperature under the required conditions for comparative weighings. Dry the exterior before weighing and use the same clean jar and top.

Sample Condition and Results

ASTM C128 and AASHTO T 84 cover relative density and absorption of fine aggregate. Oven-dry, saturated-surface-dry and apparent relative density results use different specimen conditions.

Absorption calculations use dry and saturated-surface-dry masses. Record specimen identification, temperature and all weighings, then calculate by the selected method.

LT-G0075

Technical Specifications and Use Workflow

LT-G0075 • Glass jar type pycnometer

Technical Specification	Value / Description
Product Code	LT-G0075
Product Type	Glass jar pycnometer
Main Application	Fine aggregate relative density and absorption testing
Jar	Transparent glass
Upper Top	Removable conical metal top
Upper Opening	Air vent / filling opening
Overall Dimensions	Ø100 × 200 mm
Approximate Weight	0.5 kg
Fine Aggregate References	ASTM C128 / AASHTO T 84
Aggregate Method Reference	BS 812-2
Supporting Equipment	Suitable balance, temperature measurement and preparation tools
Cleaning	Remove the top to clean jar and contact surfaces

Control Fill Level, Temperature and Sample Condition

Remove bubbles, adjust fill level and dry the exterior. Record dry and saturated-surface-dry specimen masses together with the relevant pycnometer weighings.

From Fine Aggregate to Density and Absorption

01
Prepare
Condition the sample and determine required masses.

02
Fill
Add sample and water; remove trapped air.

03
Weigh
Adjust fill level; weigh with the exterior dry.

04
Calculate
Calculate relative density and absorption by the method.

Product Page | liyatest.com.tr/en/urun/pycnometer-glass-jar-type/