Bottle Type Pycnometers

LT-G0070–LT-G0074 | Glass bottles and LT-G0114 filling head

Five volume options • Ground-glass neck • Glass filling head



500–5000 ml

CODED BOTTLE VOLUME OPTIONS

EN 1097-6

PARTICLE DENSITY AND ABSORPTION

Aggregate testing • Controlled filling • Volume selection for sample quantity

Photograph and Bottle Components

Transparent glass bottles, ground-glass neck and separate filling head

Bottle pycnometers are used in aggregate particle density and absorption testing. The transparent body reveals water and trapped bubbles. The ground-glass neck and LT-G0114 glass filling head form the test filling arrangement.

GROUND-GLASS NECK

The precision glass joint allows the appropriate filling head to seat on the body.

TRANSPARENT BODY

Observe the sample, water level and air bubbles trapped between particles.



VOLUME OPTIONS

Select 500, 1000, 2000, 3000 or 5000 ml according to the sample and method.

GLASS FILLING HEAD

LT-G0114 connects through the ground joint and supports controlled adjustment of the fill level.



Bottle neck, glass body and volume markings

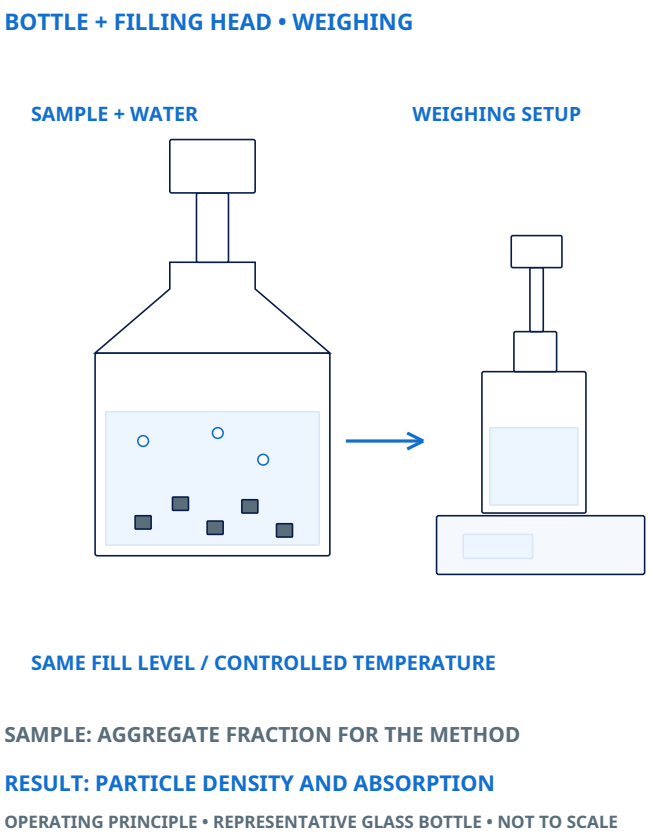


LT-G0114 glass filling head detail

LT-G0070–LT-G0074 / LT-G0114

Bottle Filling and Particle Density Calculation

Select volume • Remove trapped air • Complete mass records



Select Volume and Sample

Choose a suitable bottle from 500 to 5000 ml. Match aggregate fraction and sample condition to the method.

Add Water and Remove Air

Add sample and water to the bottle. Remove bubbles between particles and adjust fill level with the head.

Weigh and Calculate Density

Dry the exterior. Evaluate water-filled and sample-water-filled pycnometer masses with required specimen masses.

Pycnometer weighings determine the water displaced by aggregate particles. Combine these records with saturated-surface-dry and oven-dry specimen masses to calculate particle density and absorption. Select bottle volume for the sample quantity, size fraction and applicable method.

Volume and Fraction Selection

Coded bottle options are 500, 1000, 2000, 3000 and 5000 ml. Check the LT-G0114 glass-head connection and filling arrangement with the selected bottle.

EN 1097-6 provides particle density and absorption methods for different aggregate fractions. Match particle size and sample quantity to the relevant pycnometer procedure.

Filling, Air and Weighing Checks

Use the transparent body to observe trapped bubbles. Complete air removal and maintain water temperature and fill level as prescribed.

Dry the exterior before weighing. Use the same bottle and head for comparative readings. Record masses, temperature and specimen condition. After testing, separate the head and clean the glass and ground surfaces.

Volume Options and Technical Specifications

LT-G0070–LT-G0074 bottles • LT-G0114 glass filling head

Product Code	Volume	Overall Dimensions	Approx. Mass
LT-G0070	500 ml	100 × 100 × 170 mm	0.7 kg
LT-G0071	1000 ml	150 × 150 × 270 mm	1 kg
LT-G0072	2000 ml	180 × 180 × 350 mm	1.25 kg
LT-G0073	3000 ml	250 × 250 × 340 mm	1.35 kg
LT-G0074	5000 ml	250 × 250 × 400 mm	1.6 kg

Head / Shared Feature	Technical Information
Filling Head Code	LT-G0114 / glass, ground joint
Head Dimensions / Mass	50 × 50 × 275 mm / approximately 0.2 kg
Bottle Construction	Transparent laboratory glass; ground-glass neck
Test Method	EN 1097-6 / aggregate particle density and absorption
Supporting Equipment	Suitable balance, temperature measurement and preparation tools

Select Bottle Volume for the Sample and Method

Choose a volume suitable for sample movement and air removal. Record fill level, water temperature and oven-dry / saturated-surface-dry masses as prescribed.

From Aggregate to Particle Density and Absorption

01
Select and Prepare
Choose volume and prepare the sample by the method.

02
Fill
Add sample and water; remove trapped air.

03
Weigh
Adjust fill level and record required masses.

04
Calculate
Calculate particle density and absorption.

Product Page | liyatest.com.tr/en/urun/pycnometers-bottle-type/