DENSITY BOTTLE (GAY-LUSSAC TYPE) AZA0884

The AZA0884 Density Bottle (Gay-Lussac Type) is a high-precision laboratory instrument designed for determining the specific gravity (particle density) of fine materials such as sand, silt, mineral fillers, and fine aggregates.

Manufactured in compliance with ASTM D854 and BS 1377-2, the apparatus is widely used in soil mechanics, concrete technology, and construction material testing laboratories.

Constructed from borosilicate glass with precise volume calibration, the bottle features a ground-glass stopper with capillary bore, ensuring accurate liquid displacement by allowing excess fluid and entrapped air to escape—critical for high-accuracy and repeatable measurements.

Key Features

- Accurate determination of specific gravity of fine materials
- Fully compliant with ASTM D854 & BS 1377-2
- Borosilicate glass construction with high precision calibration
- Capillary stopper ensures air-free and exact volume filling
- Available in multiple capacities for varied applications
- Excellent chemical resistance and durability
- Fully reusable and autoclavable
- High measurement accuracy and repeatability
- Trusted Azalab laboratory quality

Compliance

- ASTM D854 – Specific Gravity of Soil Solids
- BS 1377-2 – Soil Classification Tests

TECHNICAL SPECIFICATION

Parameter	Specification
Model Number	AZA0884
Apparatus Type	Density Bottle (Gay-Lussac Type)
Test Method	Specific Gravity by Water Displacement
Standards Compliance	ASTM D854, BS 1377-2
Material	Borosilicate glass
Stopper Type	Ground-glass stopper with capillary hole
Calibration Temperature	20°C or 27°C (etched marking)
Volume Options	25 ml to 1000 ml
Accuracy	±0.05 ml to ±0.1 ml (size dependent)
Reusability	Fully reusable and autoclavable
Operation	Manual laboratory testing
Chemical Resistance	Excellent

TECHNICAL SPECIFICATION

Parameter	Specification
Durability	Long service life under laboratory conditions
Maintenance	Minimal maintenance required

AVAILABLE CAPACITIES

Volume	Typical Application
25 ml	Small sample precision testing
50 ml	Fine powders and fillers
100 ml	Standard soil testing (most common)
250 ml	Fine aggregate testing
500 ml	Larger soil samples
1000 ml	Industrial and bulk testing