



PLUMMET BALANCE AZA0862

The AZA0862 Plummet Balance is a specialized laboratory apparatus designed for determining the specific gravity of fine-grained soils, particularly clays and silts that are unsuitable for conventional pycnometer methods.

Engineered for precision and ease of use, the instrument provides rapid, repeatable, and reliable results for dispersed soil samples commonly used in hydrometer, pipette, and sedimentation analyses.



Advantages

- Rapid and simplified testing procedure
- Eliminates calculation errors
- Highly suitable for fine and dispersed soils
- Enhances repeatability and consistency
- Ideal alternative to pycnometer method for difficult samples

Standards Compliance

- ASTM D854 – Specific Gravity of Soil Solids
- IS 2720 (Part 3 / Section 1) – Determination of Specific Gravity

Optional Accessories

- Calibration Certificate (traceable)
- Digital thermometer for temperature correction
- Spare plummet and glass jar
- Protective carrying case



Key Features & Benefits

- Automated Reciprocating Motion

Simulates precise manual shaking as per international standards

- High Stroke Accuracy

Maintains exact travel length and shaking frequency

- Adjustable Timer Control

Enables repeatable, hands-free operation

- Dual Cylinder Capability

Supports 1–2 standard sand equivalent cylinders

- Robust Construction

Heavy-duty steel frame with industrial-grade motor

- Stable Operation

Low vibration design ensures consistent performance

- Compact Footprint

Space-efficient for laboratory benches

- Plug-and-Play System

Easy installation with minimal setup

Applications

- Determination of specific gravity of fine-grained soils
- Geotechnical and soil mechanics investigations
- Hydrometer and pipette analysis support
- Construction material quality control
- Environmental and agricultural soil testing
- Academic and research laboratories



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TECHNICAL SPECIFICATION

Component	Specification
Balance Type	Beam balance with pointer and scale
Scale Graduation	0–100% (2% divisions)
Plummet Weight	100 g ± 0.1 g
Measuring Jar Capacity	500 ml (borosilicate glass)
Height Adjustment	Rack and pinion mechanism
Accuracy	±0.5% of true value
Construction Material	Stainless steel / corrosion-resistant
Dimensions (Approx.)	300 × 200 × 450 mm
Net Weight	3 – 5 kg

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