

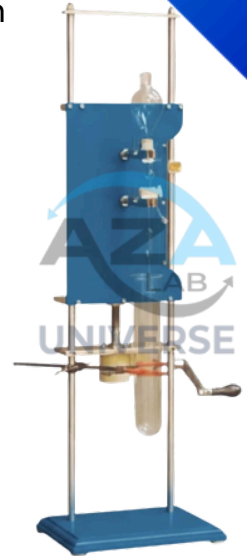


GRAIN SIZE ANALYSIS (PIPETTE METHOD) AZA0856

The AZA0856 Grain Size Analysis Apparatus (Pipette Method) is a precision laboratory setup designed for determining the particle size distribution of fine-grained soils, particularly particles smaller than 75 microns.

Based on the pipette sedimentation method, the apparatus enables accurate quantitative analysis of silt and clay fractions, where conventional sieve analysis is not applicable. It is widely used in geotechnical laboratories, civil engineering projects, and academic research for reliable soil classification.

The system features a sliding vertical panel with a precision screw mechanism, allowing accurate positioning of the pipette at specified depths, ensuring repeatable and standards-compliant testing.



Purpose & Importance

This apparatus is used for determining the percentage distribution of fine soil particles based on sedimentation principles.

Engineering Significance

- Accurate classification of cohesive soils
- Determination of silt and clay fractions
- Support for foundation and subgrade design
- Evaluation of soil permeability and compressibility
- Essential input for geotechnical investigations



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Key Features & Benefits

- High Accuracy Testing

Precise depth control ensures reliable sampling

- Standards-Compliant Design

Fully aligned with IS, ASTM, and BS requirements

- Adjustable Measurement System

Sliding vertical panel with mm-scale for accurate positioning

- Robust Construction

Stable stand with corrosion-resistant components

- Complete Testing Setup

Supplied with essential glassware and accessories

- Repeatable Results

Ensures consistency across multiple tests

Standards Compliance

- IS 2720 (Part IV) – Grain Size Analysis of Soils
- ASTM D422 – Particle Size Analysis of Soils
- BS 1377 – Methods of Test for Soils



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TECHNICAL SPECIFICATION

Parameter	Details
Model	AZA0856
Test Method	Pipette Method (Sedimentation)
Applicable Standards	IS 2720 (Part IV), ASTM D422, BS 1377
Particle Size Range	0.002 mm to 0.075 mm
Pipette Volume	10 ml (Anderson Pipette)
Sedimentation Tube	500 ml (glass)
Sedimentation Cylinder	1000 ml, graduated (borosilicate glass)
Stand Material	Mild Steel / Powder-Coated Aluminium
Depth Measurement	Adjustable with mm scale
Application	Fine-grained soil analysis
Brand	AZALAB