



## SOIL HYDROMETER AZA0858

The AZA0858 Soil Hydrometer is a precision glass instrument designed for determining the particle size distribution of fine-grained soils using the sedimentation (hydrometer) method. Specifically intended for soils where more than 10% passes the 75-micron sieve, the hydrometer enables accurate measurement of silt and clay fractions. Manufactured from high-clarity borosilicate glass, it features a permanently engraved density scale for direct and reliable readings.

The instrument is factory calibrated at 27°C, ensuring high precision and consistency in laboratory and controlled field environments.

### Purpose & Importance

The hydrometer measures the density of a soil-water suspension over time, which is used to determine the percentage of particles finer than specific sizes.

### Engineering Significance

- Soil classification and grading
- Determination of clay and silt content
- Foundation and subgrade design
- Evaluation of soil permeability and consolidation
- Essential for geotechnical investigations

### Standards Compliance

- IS 2720 (Part VI) – Particle Size Distribution by Hydrometer Method
- BS 1377-2 – Methods of Test for Soils





## Key Features & Benefits

- High Precision Measurement

Fine scale divisions ensure accurate density readings

- Permanent Engraved Scale

Etched markings for long-term readability and durability

- Factory Calibrated

Ready-to-use with calibration at 27°C

- High-Quality Material

Borosilicate glass ensures clarity, strength, and chemical resistance

- Reliable Performance

Consistent results in sedimentation-based testing

- Versatile Use

Suitable for laboratory and controlled field environments

## Applications

- Grain size analysis of fine soils (clays and silts)
- Geotechnical investigations and soil classification
- Roadworks and embankment quality control
- Foundation and subgrade analysis
- Academic and research laboratories
- Environmental sediment analysis



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**TECHNICAL SPECIFICATION**

<b>Parameter</b>	<b>Details</b>
Model	AZA0858
Application	Sedimentation analysis (fine soils)
Material	Borosilicate Glass
Density Range	0.995 – 1.030 g/cm <sup>3</sup>
Scale Division	0.0005 g/cm <sup>3</sup>
Calibration Temperature	27°C
Length	Approx. 300 mm
Particle Size Range	< 75 µm
Scale Type	Permanently engraved
Optional Variants	Custom calibration for other liquids
Brand	AZALAB