

# **HYDROMETER TEST SET (T251)**

Category: General, Soil



**Product Code:** T251

**Category:** GENERAL, SOIL

**Sub-Category:** PARTICLE SIZE ANALYSIS

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- The ALFA Hydrometer Test Set is designed for the precise determination of particle size distribution in fine-grained soils, particularly those passing the 75  $\mu\text{m}$  sieve. This

comprehensive set enables sedimentation analysis to assess soil texture and classify soil types in accordance with established standards.

- This test set facilitates the hydrometer method, which is essential for analyzing the distribution of fine soil particles. By measuring the relative density of soil suspensions over time, it allows for accurate assessment of particle size distribution.
  - The set includes all necessary components to perform sedimentation analysis, ensuring compliance with ASTM D422 standards. This method is widely recognized for soil classification and geotechnical analysis.
  - Constructed with high-quality materials, the components are designed for durability and precision, providing reliable results in laboratory settings.
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## **TECHNICAL SPECIFICATIONS**

ASTM D422 • AASHTO T88 • BS 1377-2 • ISO 11277

## **TECHNICAL SPECIFICATIONS**

- Digital thermometer and heating elements capable of keeping the bath temperature at or near 20°C as per the requirements
- High Speed Stirrer (min. 10,000 rpm)
- Power Supply: 220 – 240 V / 50 – 60 Hz

## **SUPPLIED WITH**

- Set comprises of:
  - High-Speed stirrer (not less than 10,000 rpm)
  - Temperature-controlled water bath with water circulating unit
  - Sedimentation cylinder (6 ea)
  - Soil Hydrometer (151H: 0.995 to 1.038 g/ml)
  - Sodium Hexametaphosphate (1 kg)
  - Glass beaker (250 ml)

## **ACCESSORIES**

- End-Over-End Shaker
- Soil Hydrometer (152H: -5 to +60 g/lt)
- PC Software:
  - Draw Particle Size Distribution Curve
  - Plot Upper and Lower limits for the curve
  - Unlimited Save / Recall Old Curve Data
  - Export Data to PFD, JPG, Excel, Text File
  - ALFA Cloud® Compatible
- ALFA Cloud® Subscription

## **ORDERING INFORMATION**

Item	Code
HYDROMETER SET	T251X00AH

SOIL HYDROMETER - 151 H (0.995 to 1.038 g/ml)	T251P001H
SOIL HYDROMETER - 152 H (-5 to +60 g/lt)	T251P002H
HIGH SPEED STIRRER	T251P003U
TEMPERATURE-CONTROLLED HYDROMETER BATH	T251P004U
MECHANICAL END-OVER-END SHAKER [60 Hz]	T251M001K
MECHANICAL END-OVER-END SHAKER	T251M001T

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*Keywords: hydrometer test set, soil particle size analysis, sedimentation analysis, ASTM D422, AASHTO T88, soil classification equipment, fine-grained soil testing, geotechnical laboratory equipment, soil texture analysis, particle size distribution*