

## HYDROMETER TEST SET

Code : T251



- 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 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.

### **TECHNICAL SPECIFICATIONS**

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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 (~ 10,000 rpm)
- Power Supply: 220 - 240 V / 50 - 60 Hz

## **SET**

- Set comprises of:
  - High-Speed stirrer (~ 10,000 rpm)
  - Temperature-controlled water tank with 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
  - Coefficient of Uniformity (Cu) and Coefficient of Curvature (Cc) which can be directly used in Soil Classification
  - Plot Upper and Lower limits for the curve

- Unlimited Save / Recall Old Curve Data
- Export Data to PDF, Image, CSV, Excel, Text File
- ALFA Cloud® Compatible
- ALFA Cloud® Subscription

## ORDERING INFORMATION

| Item                                          | Code      |
|-----------------------------------------------|-----------|
| MECHANICAL END-OVER-END SHAKER [60 Hz]        | T251M001K |
| MECHANICAL END-OVER-END SHAKER [50 Hz]        | T251M001T |
| SOIL HYDROMETER - 151 H (0.995 to 1.038 g/ml) | T251P001H |
| SOIL HYDROMETER - 152 H (-5 to +60 g/l)       | T251P002H |
| HIGH SPEED STIRRER                            | T251P003U |
| TEMPERATURE-CONTROLLED HYDROMETER BATH        | T251P004U |
| HYDROMETER SET                                | T251X00AH |
| SODIUM HEXAMETAPHOSPHATE                      | G811X00XH |
| BOUYOUCOS CYLINDER (Gas Jar) - 1205 ml        | W011G01KH |
| GLASS BEAKER - 150 ml                         | W001G150H |