GENERAL > PARTICLE SIZE ANALYSIS

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 µm 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

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 Name	Item Code
MECHANICAL END-OVER-END SHAKER [60 Hz]	T251M001K
MECHANICAL END-OVER-END SHAKER [50 Hz]	T251M001T
SOIL HYDROMETER (ASTM, 151H, 0.995 to 1.038 div. 0.001 g/mL)	T251P001H
SOIL HYDROMETER (ASTM, 152H, -5 to +60 g/L)	T251P002H
HIGH SPEED STIRRER	T251P003U
TEMPERATURE-CONTROLLED HYDROMETER BATH	T251P004U
SOIL HYDROMETER (BS, Casagrande, 0.995 to 1.030 div. 0.0005 g/mL)	T251P005H
HYDROMETER SET	T251X00AH