

Product Name :
Fluid Properties Apparatus**Product Code :**
ALABS-A43-048**Description :****Fluid Properties Apparatus**

- Components stored on support frame manufactured from PVC
- 2x Hydrometer jars 50 mm diameter and 450 mm high
- Universal hydrometer with varying resolution of 0.01 at 0.70 SG to 0.5 at 2.00 SG
- 2x Falling sphere viscometer tubes 40 mm diameter with calibration marks at 0, 25, 100, 175, 200 and 220 mm
- Steel spheres 1.588, 2.381 and 3.175 mm diameter
- Spirit filled thermometer glass, Range -10° to 50° C
- Aneroid barometer, Range 910 to 1060 mbar
- 6x Capillary tubes 150 mm long with 0.4, 0.6, 0.8, 1.2, 1.7 and 2.2 mm bore
- Density bottle (pycnometer), Capacity 50 ml
- Dual scale lever balance, Ranges 0 to 250 gms x 1gm and 0 to 1 kg x 10 gms

Description:

- A clear understanding about the physical properties of fluids is essential before studying the behaviour of fluids in static or dynamic applications.

This apparatus introduces students to the following properties of fluids:

- Density and relative density (specific gravity)
- Viscosity
- Capillarity – capillary elevation between flat plates and in circular tubes
- Buoyancy (Archimedes principle)
- Atmospheric pressure

- The apparatus consists of a collection of components that demonstrate individual fluid properties. The components are stored on a common support frame manufactured from PVC with circular spirit level and adjustable feet for levelling. The apparatus is designed to stand on a suitable bench top where some of the components can be operated independent from the support frame.
- A freestanding dual scale lever balance is also supplied to support several of the demonstrations.

Technical Details:

The following components are included:

- 2x Hydrometer jars (clipped to stand)
- 1x Universal hydrometer (in protective housing)
- 2x Falling sphere viscometer tubes (clipped to stand)
- 1x Plastic storage box containing steel spheres
- 1x Spirit filled glass thermometer (in protective housing)
- 1x Direct reading aneroid barometer (fixed to stand)
- 1x Parallel plate capillary apparatus
- 1x Capillary tube apparatus with 6 tubes of varying size
- 1x Archimedes apparatus comprising displacement vessel, machined bucket & matching cylinder

- 1x 50 ml density bottle
- 1x 250 ml plastic measuring cylinder
- 1x 600 ml glass beaker
- 1x Dual scale lever balance, adapted for use with Archimedes apparatus



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