



Email : sales@laboratoryinstrumentindia.com

Product Name :
Fluid Properties Apparatus

Product Code :
LBNY-0005-103000297



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:

Capillarity - capillary elevation between flat plates and in circular tubes

Density and relative density (specific gravity)

Viscosity

Atmospheric pressure

Buoyancy (Archimedes principle).

Technical Specification :

Spirit filled thermometer glass, Range -10o to 50o 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

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

Dual scale lever balance, Ranges 0 to 250 gms x 1gm and 0 to 1 kg x 10 gms

Density bottle (pycnometer), Capacity 50 ml

Technical Details:

The following components are included:

2x Hydrometer jars (clipped to stand)

1x Universal hydrometer (in protective housing)

1x Spirit filled glass thermometer (in protective housing)

1x Direct reading aneroid barometer (fixed to stand)

2x Falling sphere viscometer tubes (clipped to stand)

1x Plastic storage box containing steel spheres

1x Parallel plate capillary apparatus

1x 50 ml density bottle

1x 250 ml plastic measuring cylinder

1x Capillary tube apparatus with 6 tubes of varying size

1x Archimedes apparatus comprising displacement vessel, machined bucket & matching cylinder

1x Dual scale lever balance, adapted for use with Archimedes apparatus

1x 600 ml glass beaker.



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