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Product Name :

Set of Capillary Tubes

Product Code :

SCL1240/016



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Description :

Set of Capillary Tubes (Product Code: SCL1240/016) is a device of three interconnected tubes, each 20 cm long, with different diameters of 1 mm, 1.5 mm and 2 mm, mounted on a plastic stand. When coloured water is poured in, the liquid settles at different heights in the three tubes – highest in the narrowest – so capillarity and surface tension become visible at a glance. The set is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, for any school running a capillary tube experiment in India.

Specifications

Parameter	Detail
Type	Three interconnected capillary tubes
Tube length	20 cm
Tube diameters	1 mm, 1.5 mm and 2 mm
Mounting	Plastic stand

Typical Use

Because the tubes are connected, students might expect the water to stand at one commonlevel, as it does in ordinary communicating vessels. Instead, it climbs highest in the 1 mm tube,less in the 1.5 mm tube and least in the 2 mm tube. Measuring each height with a ruler lets the class show that the rise gets larger as the bore gets smaller, which introduces the balance between surface tension pulling the liquid up and the weight of the raised column pulling it down. The same effect explains water moving up through soil, paper towels, lamp wicks and the fine vessels of plants.

Clean tubes are essential: any trace of grease lowers the rise and makes the levels uneven, so rinse with clean water after use and let the set drain and dry upright on its stand. A drop of food colour makes the meniscus easy to see from the back of the room. Alongside other surface tension apparatus in India's school physics labs, the set gives a quick, reliable demonstration that needs no power or pump.

Manufacturer

Jain Scientific Equipments Private Limited produces this set under its ScienceLab trade name at Ambala in Haryana, where it develops properties-of-matter apparatus for secondary and senior secondary science. Learn more on the company profile.

Related Lab Equipment

Items that support a capillarity and fluids lesson:

- Metal Ruler — for measuring the height of the liquid in each tube.
- Glass Beaker — to hold and pour the coloured water.
- Capillary Tube Apparatus — an alternative apparatus for studying capillary rise
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Other

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