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Product Name :

Newton's Tube

Product Code :

SCL1223/010



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Description :

Newton's Tube (Product Code: SCL1223/010) is a long, sealed glass tube used to show thatlight and heavy bodies fall together once air resistance is removed, in school and college physics demonstrations. At least 1,500 mm long, it holds a wedge, a piece of sponge and a 5 mm metal ball, and its lid carries a tap and an air-outlet connection for a vacuum pump. It is manufacturedby **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factoryin Ambala, India, as mechanics lab equipment.

Specifications

Parameter	Detail
Tube	Transparent glass
Diameter	30–100 mm
Length	Minimum 1,500 mm
Ends	One end closed; the other end with a sealed lid carrying a tap andan air-outlet connection
Objects inside	A wedge, a piece of sponge and a metal ball of 5 mm external diameter
Product code	SCL1223/010
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Newton's Tube Used For?

The demonstration runs in two stages. First, with the tube full of air, the teacher closes the tap, holds the tube upright and turns it over smoothly: the metal ball drops quickly while the sponge drifts down slowly, just as everyday experience suggests. Next, the air outlet is connected to a vacuum pump, the air is drawn out and the tap is closed before the tube is inverted again. This time the objects fall side by side, showing that without air resistance all bodies fall with the same acceleration.

Letting a little air back in and repeating shows the effect of air resistance returning step by step, which makes a strong closing question for the class. An evacuated glass tube must be handled with care: turn it in a controlled way, never knock it against the bench, keep students at a safe distance and wear eye protection while it is under vacuum. Wipe the glass clean before class so the falling objects are easy to see from the back of the room.

What to Specify When Ordering

- The tube diameter you need within the 30–100 mm range (the length is a minimum of 1,500 mm).
- Whether a vacuum pump and vacuum tubing should be quoted with the tube, as no pump is listed with it.
- [illegible]d.

OEM

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