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Product Name :

Set to Demonstrate Archimedes' Principle/Law

Product Code :

SCL1247/018



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Description :

Set to Demonstrate Archimedes' Principle/Law (Product Code: SCL1247/018) is a buoyancy demonstration set used to prove that the upthrust on an immersed body equals the weight of the liquid it displaces, in secondary-school physics lessons. It combines a plastic bowl with a side drainage connection, a dynamometer graduated in newtons and two plastic cylinders, the full one fitting strictly into the empty one. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India, as a physics demonstration kit.

Specifications

Parameter	Detail
Water vessel	Plastic bowl with a side water-drainage connection
Force meter	Dynamometer graduated in N (newtons)
Full cylinder	Plastic, full (solid), with handle
Empty cylinder	Plastic, empty, with handle and a hook at the bottom
Cylinder fit	The full cylinder fits strictly into the empty one
Product code	SCL1247/018
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Archimedes' Principle Set Used For?

The classic procedure hangs the empty cylinder from the dynamometer, with the full cylinder suspended from the hook underneath, and notes the force reading in air. The full cylinder is then lowered into the water in the bowl: the reading drops because of the buoyant force, and the displaced water runs out through the side drainage connection. When students fill the empty cylinder with water, the dynamometer returns to its original reading, and because the full cylinder fits strictly into the empty one, the water added has exactly the volume of the immersed body.

Teachers can extend the lesson by collecting the drained water in a beaker and weighing it, or by repeating the test with salt water to discuss density. Hang the dynamometer from a firm stand so it reads vertically, zero it before each run, and fill the bowl up to the drain level before immersing the cylinder so that all the displaced water is captured. The set sits comfortably alongside other mechanics lab equipment in India's secondary-school physics rooms.

OEM Manufacturer

This Archimedes' principle set is made by Jain Scientific Equipments Private Limited, trading as ScienceLab, as the OEM (original equipment manufacturer) at its own licensed factory at Saha, Ambala, Haryana, India. Schools, colleges, distributors and importers buy it factory-direct, so quota
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