Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Leslie's Cube

Product Code :

SLE/H/06



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Description :

Leslie's Cube (Product Code: SLE/H/06) is a 4 x 4" hollow cube used to measure thermal radiation properties as a function of temperature, colour and surface texture. Filled with hot water, its differently finished faces sit at the same temperature yet radiate by different amounts, giving a direct, measurable demonstration that surface matters as much as heat. Physics teachers and college practical labs use this physics lab equipment in India to introduce emissivity and black-body ideas, and it is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Specifications

Parameter	Detail
Dimensions	4 x 4"
Measures	Thermal radiation as a function of temperature, colour and surface texture
Needed, not included	Water, thermometer and light source

Typical Use

Fill the cube with hot water and place a thermometer in it so the internal temperature is known. Point a radiation sensor or an infra-red thermometer at each face in turn from the same distance and record the readings: although every face is at the same temperature, the dark and dull faces register more radiation than the shiny ones. Repeat as the water cools, or refill with water at different temperatures, to show how emitted radiation rises steeply with temperature.

The experiment connects directly to everyday design choices — why radiators are often painted, why vacuum flasks are silvered and why solar collectors are dark. Have students predict the order of the faces before measuring, then compare predictions with data. Empty and dry the cube after use and avoid scratching or marking the faces, since their finish is what the lesson depends on. For institutions sourcing physics lab equipment in India, it pairs naturally with radiation cans for a complete radiation unit.

Manufacturer

Leslie's Cube is part of the physics range offered by ScienceLab, the brand under which Jain Scientific Equipments Private Limited of Ambala, Haryana, trades. As a physics instruments supplier in India that also serves international markets, the company outlines its work on the company profile page.

Related Laboratory Equipment

Items that complete a Leslie's cube practical:

- Immersion Thermometer — measures the water temperature inside the cube.
- Thermometer, Infra Red, Hand Held — a quick way to compare readings from each face.
- Hot Plate General Purpose — heats the water before filling.
- Radiation Can Set — follows on with absorption and cooling comparisons.

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