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Product Name :

Calorimeter With Accessories

Product Code :

SCL-054/02a



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Description :

Calorimeter With Accessories (Product Code: SCL-054/02a) is an aluminium double-cup calorimeter with an insulated outer cup, a transparent plastic cap with a thermometer hole, two heating electrodes and a stirrer. It lets students measure heat transfer, specific heat capacity and the heating effect of an electric current with reduced heat loss to the surroundings. This calorimeter lab India schools and colleges use is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Inner cup	Aluminium, minimum volume 150 ml
Outer cup	Aluminium, with thermal insulation
Cap	Transparent plastic, with hole for thermometer
Heating	Two heating resistant electrodes, tightened with nuts
Accessory	Stirrer

Typical Use

For the method of mixtures, weigh the empty inner cup, add a known amount of cold water, then drop in a heated solid and stir while watching the thermometer through the cap. The insulated outer cup slows heat exchange with the room, so the final steady temperature is closer to the true value and the specific heat capacity of the solid can be calculated with confidence.

For electrical heating, connect the two electrodes to a suitable low-voltage supply through an ammeter and voltmeter, record current, voltage and time, and compare the electrical energy supplied with the heat gained by the water. The same set-up doubles as thermometry apparatus India teachers use for cooling-curve work: heat the water, switch off, and log the temperature at regular intervals while stirring gently.

Manufacturer

This calorimeter set is manufactured in Ambala, Haryana, by Jain Scientific Equipments Private Limited, a company that trades as ScienceLab and serves physics and chemistry laboratories. For institutional vendor registration, the company's GSTIN is 06AAECJ8618A1ZT and its Legal Entity Identifier is 3358004HRD1JIVXKYX49. More details are on the company profile.

Related Lab Equipment

A complete heat experiment also needs temperature, time, mass and electrical readings; these items cover them:

- Laboratory Thermometer — fits through the cap to follow the water temperature.
- Multimeter — measures the current and voltage fed to the heating electrodes.
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