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Product Name :

Calorimeter Set, Aluminium

Product Code :

SLE/PHY/29



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Description :

Calorimeter Set, Aluminium (Product Code: SLE/PHY/29) is a Joule's calorimeter set used to heat a liquid electrically and find specific heat capacity in school and college physics laboratories. An aluminium inner vessel sits inside a plastic outer vessel with custom-made foam insulation, heated by a 12 W precision heater, with a stirrer, stopper and spare cap included. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India, for calorimeter lab work across India and abroad.

Specifications

Parameter	Detail
Type	Joule's calorimeter set
Inner vessel	Aluminium, 70 x 65 mm
Outer vessel	Plastic, 110 x 100 mm
Insulation	Custom-made foam plastic heat insulation
Heater	Precision heating element, 12 W
Heating resistor	1% resistance tolerance, mounted on nickel-plated brass poles bya transverse screw
Included	Stirrer, stopper and a spare cap for experiments that do not need heat
Thermometer	Not included
Product code	SLE/PHY/29
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Aluminium Calorimeter Set Used For?

The set is built for the electrical method of measuring specific heat capacity. A weighed quantity of water or another liquid goes into the aluminium vessel, the heater is switched on, and students log the voltage, current, heating time and temperature rise. Equating the electrical energy supplied with the heat taken up by the liquid and the vessel gives the specific heat capacity, and the foam lagging keeps heat loss to the room low.

When a practical needs no heating, such as a method-of-mixtures experiment, the spare cap replaces the heater cap so the same vessels can be reused. Stir steadily while heating, start the clock at the moment the current is switched on, and keep reading the temperature for a short while after switching off to catch the peak. A thermometer is not included, so plan for one per set.

What to Specify When Ordering

- Number of calorimeter sets for your student groups
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OEM

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