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Product Name :

Calorimeter Set, Copper

Product Code :

SLE/PHY/30



Science Lab
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Description :

Calorimeter Set, Copper (Product Code: SLE/PHY/30) is a lagged copper calorimeter with abuilt-in Constantan heating coil, used to determine the specific heat capacity of a liquid by theelectrical method in physics laboratories. Its nickel-plated copper vessel sits inside an outervessel, and a close-fitting ebonite lid carries a wire stirrer and 4 mm socket terminals. It is madeby **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factoryin Ambala, India, for heat practicals in India and abroad.

Specifications

Parameter	Detail
Calorimeter	Nickel-plated copper, 75 x 50 mm (diameter)
Outer vessel	100 x 75 mm (diameter); calorimeter lagged and enclosed within it
Lid	Close-fitting ebonite lid
Stirrer	Wire stirrer, provided with the lid
Terminals	Pair of 4 mm socket terminals
Heating coil	Constantan wire, approximately 6 ?
Operating current	0.5 A (maximum 1 A)
Application	Specific heat capacity of a liquid by the electrical method
Thermometer	Supplied without thermometer
Product code	SLE/PHY/30
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Copper Calorimeter Set Used For?

This set answers a standard practical question: how much energy does it take to warm a given mass of liquid by one degree? Students pour a weighed amount of liquid into the copper vessel, connect the coil terminals to a supply through an ammeter, place a voltmeter across them and pass a steady current while stirring. From the voltage, current, time and temperature rise, and allowing for the heat taken by the copper vessel, they calculate the liquid's specific heat capacity.

Keep the current near the recommended 0.5 A and never above 1 A, make sure the coil is covered by liquid before switching on, and stir with the wire stirrer throughout. Because the calorimeter is lagged inside its outer vessel, heat loss stays modest, and this calorimeter lab equipment in India suits specific-heat experiments at school and college level.

What to Specify When Ordering

- Quantity of sets required for your laboratory
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- ed.

OEM

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