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

Product Name :

Immersion Heater

Product Code :

SLE/PHY/192



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Description :

Immersion Heater (Product Code: SLE/PHY/192) is a sheathed miniature 12 V, 50 W heater used to deliver a measured amount of electrical energy to metal block calorimeters in specificheat capacity experiments. It is 100 mm long and 12 mm in diameter, and connects through 200mm leads with heat-resisting insulation and 4 mm terminals, a practical choice for any calorimeterlab in India. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Type	Sheathed miniature immersion heater
Designed for	Metal block calorimeters
Power	12 V, 50 W
Length	100 mm
Diameter	12 mm
Connection	200 mm leads with heat-resisting insulation and 4 mm terminals
Product code	SLE/PHY/192
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the 12 V Immersion Heater Used For?

In the classic specific heat capacity practical, the heater is placed in a metal calorimeter block together with a thermometer and switched on from a 12 V supply for a timed period. The energy supplied is found from a joulemeter, or from voltage, current and time, and dividing it by the block's mass and temperature rise gives the specific heat capacity of the metal. Repeating the test with blocks of different metals lets students compare their results.

Run the heater only from a 12 V supply, never from the mains, and switch it on only when it is seated in the block so it cannot overheat in open air. A few drops of water or oil in the heater hole improve thermal contact. Let the heater cool before lifting it out.

What to Specify When Ordering

- Number of heaters, usually one per calorimeter block.
- Whether a 12 V power supply, joulemeter or thermometers should be quoted with it.
- Confirmation that your calorimeter blocks accept a heater 100 mm long and 12 mm in diameter.

Supplier

Jain Scientific Equipments Private Limited, trading as ScienceLab, supplies this immersion heater from Ambala, Haryana, to schools and colleges setting up calorimetry practicals, and to dealers and importers in India and international markets.

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