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

Product Name :

Calorimeter, Aluminium

Product Code :

SLE/PHY/143



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Description :

This aluminium calorimeter is a plain cup that holds water or another liquid in method-of-mixtures practicals, where a heated solid is lowered in and the temperaturechange is measured. It is 75 mm long and 50 mm in diameter, with parallel sides anda rolled rim. The cup takes part in the heat exchange, so its mass goes into thecalculation. It is supplied without a stirrer.

Aluminium calorimeter cup specifications

Parameter	Detail
Material	Aluminium
Form	Parallel sides with rolled rim
Length	75 mm
Diameter	50 mm
Stirrer	Not included
Product code	SLE/PHY/143
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Heat practicals with the aluminium calorimeter

Specific heat of a solid by mixtures. Weigh the dry cup on an electronic balance, half fill it with cold water and weigh it again. Heat one of the metal cylinders in boiling water in a glass beaker until its temperature is steady. Lower it into the cup, stir, and note the highest steady reading. Heat lost by the metal equals heat gained by the water and the cup.

Comparing metals. Repeat the run with the other cylinders of the set, weighing each one first. Keep the starting water temperature close to room temperature each time. Stand the cup in calorimeter lagging for every run, so that the values found for different metals can be compared fairly.

Latent heat of fusion of ice. Warm the water in the cup a few degrees above room temperature and read it with an immersion thermometer. Add small pieces of ice dried on filter paper, stir until they melt, and note the minimum reading. Weigh again to find the mass of ice. The heat given up by the water and cup, minus the heat that warmed the melted ice, divided by that mass, gives the latent heat.

Frequently Asked Questions About the Calorimeter, Aluminium

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