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Product Name :

Physical Balance

Product Code :

SLE/LB/08



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Description :

This student beam balance weighs up to 250 g with a sensitivity of 2 mg. Its castalloy beam rests on agate bearings and knife edges, and the nickel plated brasspans lift off for cleaning. Double-hook hangers let a sample hang below a pan inwater, so the same instrument covers both mass and specific gravity practicals.

Physical balance construction and capacity

Parameter	Detail
Capacity	250 g
Sensitivity	2 mg
Beam	Cast alloy, fitted with balancing nuts
Bearings	Agate bearings and knife edges
Pans	Detachable, nickel plated brass
Hangers	Double hooks for specific gravity experiments
Pillar	Enamelled central pillar
Levelling	Plumb line and levelling screws
Case	Polished wooden case
Product code	SLE/LB/08
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Practicals on the physical balance

Mass of a solid. Level the balance with the levelling screws until the plumb line is centred, then zero the empty beam with the balancing nuts. Put the object on the left pan. Add masses from the Physical Balance Mass Set to the right pan with forceps, starting with the heaviest, and finish with fractional weights.

Relative density of a solid. Weigh a metal density cube in air. Then tie it with fine thread to the lower hook so that it hangs fully under water in a glass beaker that does not touch the pan. Divide the weight in air by the loss of weight in water.

Relative density of a liquid. Use one sinker for three weighings: in air, in water and in the test liquid, such as glycerine or salt solution. The loss of weight in the liquid divided by the loss in water gives its relative density. Rinse and dry the sinker before each liquid.

Doub… the read… two …

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