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Product Name :

Balance Single Pan

Product Code :

SLE/LB/05



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Description :

The Balance Single Pan is a four-beam mechanical balance that weighs up to 311 g with 10 mg readability. Each beam carries its own non-removable slider, so no separate masses are needed. The stainless steel pan has two pouring spouts and a handle, the beam is magnetically damped, and a platform housed in the base serves for density determination.

Four-beam single pan balance specifications

Parameter	Detail
Capacity	311 g
Readability	10 mg
Beams	4, each with a non-removable slider
Beam graduations	0–200 g × 100 g; 0–100 g × 10 g; 0–10 g × 1 g; 0–1 g × 10 mg
Additional masses	Not required
Zero	Zero adjustment provided
Pan	Stainless steel, 90 mm diameter, with 2 pouring spouts and handle
Damping	Magnetically damped beam movement
Density work	Platform housed in the base for density determination
Product code	SLE/LB/05
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Weighing and density practicals on the four-beam balance

Density of an irregular solid. Weigh a metal density cube or a small stone in air and add the four slider readings. Weigh it again fully immersed in water, using the density platform in the base as the supplied operating instructions describe. The loss in weight gives the volume displaced, and mass divided by volume gives the density.

Density of a liquid. Weigh a dry glass measuring cylinder, pour in a measured volume of salt solution or cooking oil and weigh it again. Divide the mass of liquid by its volume, repeat with tap water and compare the two results. Tip the liquid back through a funnel rather than over the pan.

Mass gained on burning magnesium. Coil a strip of magnesium ribbon into a weighed crucible with lid, heat it until it stops glowing, lifting the lid now and then, then cool and w t the f

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