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Product Name :

Analytical Balance Mass Set

Product Code :

SLE/LB/10



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Description :

The Analytical Balance Mass Set holds the reference masses used to counterpoise samples on a two-pan analytical or chemical balance. Its main pieces are chrome-plated brass and the smallest fractions are light alloy. A 10 mg rider and a pair of forceps sit with them in a polished case, and the set is listed as accuracy class B.

Analytical mass set contents and finish

Parameter	Detail
Type	Complete mass (weight) set for analytical beam balances
Main weights	Brass, chrome plated
Fractional weights	Light alloy
Rider	10 mg
Handling tool	Forceps, included
Storage	Polished case
Accuracy class	Class B
Product code	SLE/LB/10
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Weighing exercises with the mass set

Weighing an empty crucible. Put a clean, cool crucible with lid on the left pan of the analytical balance and build the counter-mass on the right pan. Write down each piece as it goes on, then read the total a second time from the empty places in the case and check it again as each piece goes back.

Checking the set against itself. Place one large piece on a pan and balance it with smaller pieces whose nominal values add up to the same total. Swap the two groups between the pans and repeat. A difference that remains after the swap comes from the pieces rather than unequal balance arms, so those pieces should be compared with a reference set.

Water of crystallisation. Weigh a crucible, add hydrated copper sulfate and weigh again on a chemical balance. Heat gently until the blue crystals turn white, cool and weigh, then repeat to constant mass. The loss gives the water driven off, and the ratio of moles gives the formula of the hydrate.

Fre ass Set

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