

## **DENSITY BASKET**

### **BE 76**

A density basket is a specialized laboratory apparatus used in civil engineering and materials testing, primarily for determining the specific gravity (relative density) and water absorption of coarse aggregates, such as those used in concrete and asphalt mixes. It operates on the principle of buoyancy (Archimedes' principle) to measure the weight of aggregates in air and submerged in water.

### **FOLLOWING STANDARD**

IS 2386 (Part 3), ASTM C127

### **KEY FEATURES AND SPECIFICATIONS**

Density baskets are typically constructed for durability and precision:

- **Material:** Brass or galvanized iron frame with stainless steel wire mesh (to allow water flow while retaining aggregates).
- **Dimensions:** Approximately 20 cm diameter × 20 cm height (standard size); larger variants (e.g., 18" × 18") are available for bulk testing.
- **Mesh Size:** 6.3 mm or 4.75 mm openings, compliant with standards like ASTM C127 or IS 2386.
- **Handle:** Bail-type or hook for suspending from a balance or frame.
- **Weight:** Around 1-2 kg, depending on construction.

