

SPECIFIC GRAVITY FRAME (Buoyancy Method) (G100)

Category: General



Product Code: G100

Category: GENERAL

Sub-Category: GENERAL PURPOSE

- This apparatus facilitates the determination of the average density, relative density (specific gravity), and absorption rate of coarse aggregate particles. The density measurements can be expressed in terms of oven-dry (OD), saturated surface-dry (SSD), or apparent density states.
- The system comprises a robust, high-rigidity frame that ensures stability and durability during testing procedures.
- The lower section of the frame features a moving platform designed to hold a water tank, allowing specimens to be weighed both in air and while submerged, as required by standard testing methods.
- A stainless steel wire basket with dimensions of 200 mm in diameter and 200 mm in height, constructed with 3.35 mm (No. 6) mesh, is provided for holding aggregate samples during testing.
- The frame is designed to accommodate an electronic balance equipped with an under-hook facility, enabling precise measurement of specimen weights in different states. The balance must be ordered separately to match specific testing requirements.

STANDARDS

ASTM C127 • AASHTO T85 • BS 812:2 • EN 12390-7 • EN 1097-6

TECHNICAL SPECIFICATIONS

- Frame: High-rigidity construction
- Moving Platform: Integrated into the lower frame for water tank support
- Water Tank: Included
- Density Basket: Stainless steel, Ø 200 mm x 200 mm height, 3.35 mm mesh opening
- Balance Compatibility: Requires electronic balance with under-hook (ordered separately)

EQUIPPED WITH

- Cam mechanism and handle
- Moving platform

SUPPLIED WITH

- Water Tank
- Wire Basket (Ø 200 x 200 mm) with 3.35 mm opening (ASTM No: 6)

ORDERING INFORMATION

| Item | Code |
|-----------------------------------------------------------------|-----------|
| SPECIFIC GRAVITY FRAME | G100X00XH |
| CRADLE | G100P001H |
| DENSITY BASKET (Ø 200 x 200 mm / Aperture: 3.35 mm) | G100P002H |
| WATER TANK | G100P003H |
| DENSITY / SOUNDNESS BASKET (Ø 250 x 250 mm / Aperture: 1.00 mm) | G100P004H |
| DENSITY / SOUNDNESS BASKET (Ø 120 x 160 mm / Aperture: 3.35 mm) | G100P005H |
| SPECIFIC GRAVITY PYCNOMETER | G103X00XH |

Keywords: Specific Gravity Frame, Buoyancy Method, Coarse Aggregate Testing, Aggregate Density Measurement, Water Absorption Test, ASTM C127, AASHTO T85, BS 812:2, EN 12390-7, EN 1097-6