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Product Name :

Initial Surface Absorption Test Apparatus

Product Code :

SLE/CE/32



Description :

Initial Surface Absorption Test Apparatus (Product Code: SLE/CE/32) is a stand-mounted test set used to assess the surface absorption characteristics of hardened concrete in civil engineering, durability research and materials testing laboratories. Engineering students and quality-control staff use it to measure the rate of water flow per unit area into a concrete surface held under a constant 200 mm head, read on a capillary tube mounted against a scale.
Jain Scientific Equipments Pvt Ltd (ScienceLab) manufactures it as an OEM at its own factory in Ambala, India.

Specifications

Parameter	Detail
Test purpose	Surface absorption characteristics of concrete
Quantity measured	Rate of flow of water per unit area into the concrete surface
Water head	Constant head of 200 mm
Size	200 mm
Materials	Stainless steel and plastic
Accuracy	±1%
Main parts	Capillary tube mounted on a scale, water reservoir and connecting tubes
Mounting	Mounted on a stand; easy to use
Product code	SLE/CE/32
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the ISAT Apparatus Used For?

The initial surface absorption test (ISAT) looks at the outer skin of concrete, the zone that protects reinforcement and first meets rain, groundwater and aggressive substances. Water from the reservoir is brought into contact with the test surface under the constant 200 mm head, and the movement of the water front along the capillary tube is timed against the scale. A lower flow rate points to a denser, less absorptive surface.

Laboratories use the apparatus to compare curing methods, mix designs and surface treatments on cast specimens or on existing elements. Test surfaces should be in a similar moisture condition before each run, and connections should be free of trapped air, so that results from different samples can be compared fairly. It suits the durability module of any engineering lab equipment set-up at a college or research centre.

OEM Manufacturer

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