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Product Name :

Pocket Concrete Penetrometer

Product Code :

SLE/CE/33



Description :

Pocket Concrete Penetrometer (Product Code: SLE/CE/33) is a hand-held spring penetrometer used to measure the penetration resistance of concrete mortar and judge when it reaches initial set, in concrete laboratories and during site quality checks. Its direct-reading scale runs from 0 to 50 kg/cm², a marker ring holds the reading after release, and concrete is assumed initially set once resistance reaches 35 kg/cm². It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM engineering lab equipment manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Scale range	0–50 kg/cm², direct reading
Initial-set indication	Concrete assumed initially set when penetration resistancereaches 35 kg/cm²
Needle face area	3/10 sq cm
Dimensions	178 × 19 mm
Mechanism	Calibrated spring confined in a sleeve inside the barrel; needle point integral with the barrel
Reading retention	Marker ring that holds its position when released
Supplied with	Carrying case
Product code	SLE/CE/33
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is a Pocket Penetrometer Used For?

As concrete stiffens, the mortar offers more and more resistance to a pointed needle. The pocket penetrometer turns that resistance into a number: the needle is pressed steadily into the mortar, the calibrated spring compresses, and the marker ring slides along the scale and stays at the maximum value when the instrument is withdrawn. Tracking readings over time shows when the concrete approaches initial set.

Site engineers and laboratory staff use this information to time finishing work, compare mixes with and without admixtures, and demonstrate setting behaviour to students. Press the needle at a steady rate, test fresh spots each time, reset the marker ring before every reading, and wipe the needle clean before returning it to its carrying case. Its small size makes it a convenient addition to the engineering lab equipment kit of a college or site laboratory.

OEM Manufacturer

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