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Product Name :

Concrete Penetrometer Spring Type

Product Code :

SLE/CE/23



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Description :

Concrete Penetrometer Spring Type (Product Code: SLE/CE/23) is a spring-loaded penetration device used to find the rate of hardening of mortar sieved from fresh concrete in concrete testing laboratories and on site. Technicians press one of its six interchangeable needles 25 mm into the mortar and read the force from a sliding ring on the graduated stem. **Jain Scientific Equipments Pvt Ltd (ScienceLab)** makes it as the OEM at its own factory in Ambala, India, as part of its engineering lab equipment in India range.

Specifications

Parameter	Detail
Application	Rate of hardening of mortar sieved from concrete
Operating principle	Spring-loaded device; the force needed to penetrate the mortar by 25 mm is shown by a sliding ring on the graduated stem
Load scale	Graduated 1 to 100 daN (the listing also gives a stem graduated0–70 kg × 1 kg; the scale fitted is confirmed on the quotation)
Penetration needles	Six, interchangeable; bearing areas listed as approx. 645–650, 323–325, 160, 65, 32 and 16 mm²
Needle shank marking	Every 12.5 mm
Weight (approx.)	5 kg
Supplied with	Carrying case
Product code	SLE/CE/23
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Concrete Penetrometer Used For?

Mortar is sieved out of a fresh concrete sample and placed in a container. At regular intervals a needle is pushed into the mortar to a depth of 25 mm — two of the 12.5 mm marks on the shank — and the sliding ring records the force reached. Dividing that force by the needle area gives penetration resistance, and plotting it against elapsed time shows how quickly the concrete is setting.

Start with the largest needle while the mortar is soft and change to smaller needles as it stiffens, so the force stays within the scale. Reset the sliding ring before each reading and wipe the needle clean. The results help plan finishing, formwork removal and the effect of admixtures in hot or cold weather.

What to Specify When Ordering

- The load scale you need: 1–100 daN, or a stem graduated 0–70 kg × 1 kg.
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