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Product Name :

Proctor penetrometer

Product Code :

SLE/CE/72



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Description :

Proctor penetrometer (Product Code: SLE/CE/72) is a spring-dynamometer needle penetrometer used to establish the relationship between moisture content and penetration resistance of fine-grained soils, in compaction testing and for checking rolled fills. Soillaboratories use it with nine interchangeable needles, from 28.55 mm down to 4.52 mm diameter,reading the push on a 0 to 55 kg scale. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM engineering lab equipment manufacturer, at its own factory in Ambala,India.

Specifications

Parameter	Detail
Purpose	Establishing the moisture content – penetration resistance relationship of fine-grained soils
Measuring system	Special spring dynamometer with pressure-indicating scale on the stem of the handle
Load scale	0 to 55 kg, 1 kg subdivisions
Maximum reading	Sliding ring on the stem indicates the maximum pressure reached
Interchangeable needles	Diameters 28.55, 24.79, 20.22, 16.54, 12.83, 9.07, 6.40, 5.23 and 4.52 mm
Weight	Approx. 3.5 kg
Product code	SLE/CE/72
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Proctor Penetrometer Used For?

In the laboratory, a needle is pushed steadily into each compacted specimen as the compaction test proceeds, and the maximum force — held by the sliding ring — is divided by the needle's end area to give penetration resistance. Plotting resistance against water content produces a curve that sits alongside the compaction curve. On site, a quick push into the rolled fill can then be compared with that curve to judge whether the fill was placed too wet or too dry.

Swapping needles keeps readings within the 0 to 55 kg scale: broad needles for soft, wet soil and slender ones for stiff, dry soil. For lab equipments for technical institutes, it shows students clearly how moisture changes soil strength. Clean each needle after use and store the set in order of size so the right end area is always used in calculations.

OEM Manufacturer

ScienceLab, the trading name of Jain Scientific Equipments Private Limited, manufactures the Proctor penetrometer as its own OEM product at its licensed factory at Saha, Ambala, Haryana, India. [illegible] impor[illegible]

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