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Product Name :

Standard penetrometer

Product Code :

SLE/CE/91



Science Lab

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Description :

Standard penetrometer (Product Code: SLE/CE/91) is a dial-type needle penetration instrument used to measure the consistency of bitumen and similar semi-solid materials in civil engineering and highway materials laboratories. Engineering colleges, polytechnics and road-materials labs use it for penetration tests, reading needle depth on a dial graduated in 400 divisions of 0.1 mm.It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer of engineering lab equipment in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Construction	Vertical pillar mounted on a base fitted with levelling screws
Fine adjustment	Rack-and-pinion and pointer assembly to bring the needle or cone tip onto the sample
Reading and reset	Clutch mechanism for simple reading of penetration and resetting between tests
Dial	Graduated in 400 divisions of 1/10 mm with millimetre subdivisions; needle pointer reads against figures
Measuring head	Head with dial, plunger rod and cone or needle slides on the pillarand clamps at any desired height
Supplied with	1 bitumen penetration needle; ring weights of 50 g and 100 g (one each); 2 sample containers
Accessory	Penetration cone for empirical estimation of penetration of lubricating grease, petroleum jelly and similar materials
Product code	SLE/CE/91
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Bitumen Penetrometer Used For?

In a bitumen penetration test, the conditioned sample in its container is placed under the needle and the tip is lowered with the rack-and-pinion adjustment until it just touches the surface. The needle is then released for the time set by the test method, and the dial shows how far it sank in tenths of a millimetre. Harder grades give lower readings, so students and technicians use the result to compare and classify paving bitumen. The 50 g and 100 g ring weights let the operator make up the load the method calls for.

Fitted with the accessory penetration cone, the same stand gives empirical penetration values for lubricating grease and petroleum jelly, which makes it useful lab equipment for technical institutes that teach both highway materials and petroleum products. Level the base with its screws before each series, keep the needle clean and straight, and use the clutch to return the dial to zero.

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