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Product Name :

Constant Head permeability apparatus

Product Code :

SLE/CE/59



Science Lab
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Description :

Constant Head permeability apparatus (Product Code: SLE/CE/59) is a Perspex permeameter cell used to measure the permeability of relatively coarse-grained soils such as sands and gravel in soil mechanics laboratories. It is offered in 75 mm and 114 mm nominal cell diameters, with pressure points at different levels that connect to a manometer stand and a constant level tank. **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, the OEM manufacturer, makes it at its own factory in Ambala, India.

Specifications

Parameter	Detail
Method	Constant head; the apparatus is used for laboratory determination of soil permeability using a constant or avariable head
Suitable soils	Relatively coarse-grained soils such as sands and gravel
Permeability cell	Perspex, mounted on a detachable aluminium base and head
Models	75 mm and 114 mm nominal cell diameter
Maximum particle size	10 mm
Recommended permeability range	10^{-3} to 10^{-7} cm/s (as listed)
Connections	Pressure points at different levels, to be connected to the manometer stand and the constant level tank
Product code	SLE/CE/59
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Constant Head Permeability Apparatus Used For?

Water flows through the soil specimen in the cell under a head kept steady by the constant level tank. Once flow is steady, the volume collected over a measured time and the head difference read on the manometer between two pressure points give the coefficient of permeability through Darcy's law. The transparent Perspex cell lets students watch saturation and spot air pockets or piping.

Coarse soils are free-draining, so the constant head method gives a measurable flow in a short time; for fine-grained clay-like or silty soils, the falling head method is recommended instead. Keep particles to 10 mm or less, use de-aired water and saturate the specimen fully before readings. Students and consultants use this engineering lab equipment in India for drainage, filter and earth-dam design exercises.

What to Specify When Ordering

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