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Product Name :

Shrinkage limit set

Product Code :

SLE/CE/67



Science Lab
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Description :

Shrinkage limit set (Product Code: SLE/CE/67) is a kit of dishes, a glass cup and a pronged Perspex plate used to measure the shrinkage limit of cohesive soils — the water content below which further drying no longer reduces soil volume. Civil engineering colleges and testing labsuse it to calculate shrinkage ratio, shrinkage index and volumetric shrinkage; the set is supplied without mercury. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM vocational training lab equipment manufacturer in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Test purpose	Determining shrinkage limit and calculating shrinkage ratio, shrinkage index and volumetric shrinkage
Porcelain evaporating dish	1
Shrinkage dish	1
Glass cup	1
Perspex plate	1, with three metal prongs
Flexible spatula	1, 100 mm
Glass cylinder	1, 25 ml x 1 ml
Plastic wash bottle	1, 500 ml
Mercury	Not included; optional accessory in a 500 g bottle, quoted separately
Product code	SLE/CE/67
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Shrinkage Limit Set Used For?

As a wet clay dries it shrinks, but only down to a certain water content; after that, air enters the voids and the volume stays constant. To find that point, a wet soil pat is dried in the shrinkage dish and its dry volume is measured by mercury displacement: the glass cup is filled with mercury, levelled with the Perspex plate, and the dry pat is pressed under the surface with the three metal prongs so the displaced mercury can be measured.

Soils with a low shrinkage limit and high volumetric shrinkage tend to crack on drying and heave on wetting, which matters for foundations, canal linings and pavements. Mercury is toxic, so work over a tray, avoid skin contact and follow your institution's handling and disposal rules. The set suits teaching labs that want a complete Atterberg-limits bench.

What to Specify When Ordering

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