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Product Name :

Plunger penetration apparatus

Product Code :

SLE/CE/52



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Description :

Plunger penetration apparatus (Product Code: SLE/CE/52) is a drop-plunger instrument usedto determine the consistency of masonry cement and building limes in construction-materials laboratories. A 90 g plunger assembly falls 100 mm into mortar held in an 80 mm diameter test cup, and the penetration depth shows how stiff or fluid the mix is. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer of engineering lab equipment, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Application	Consistency of masonry cement and building limes
Height of drop	100 mm
Plunger assembly mass	90 g
Base	Steel base with a recess to house the test cup
Column	Vertical column holding the penetration plunger assembly
Test cup	80 mm diameter × 70 mm deep
Supplied with	Test cup and tamper
Weight	6 kg (approx.)
Product code	SLE/CE/52
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Plunger Penetration Apparatus Used For?

Masonry cement and lime mortars must be brought to a standard workability before their other properties are tested, and this apparatus puts a number on that workability. Fresh mortar is filled into the test cup in layers with the tamper and levelled, the cup is placed in the recess of the steel base, and the plunger is released from 100 mm above the surface. The water content is adjusted until the penetration falls within the range your test procedure specifies.

Students quickly see how a small change in water alters penetration, which makes it useful technical educational equipment for building-materials practicals. Keep the plunger shaft clean and dry so it falls freely, release it without pushing, and wipe the cup between mixes so old mortar does not change the next reading.

What to Specify When Ordering

- Number of apparatus units required
- Additional test cups (80 mm diameter × 70 mm deep) for testing several mixes in sequence
- Whether a spare tamper should be included

OEM