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Product Name :

Ball Penetration Apparatus

Product Code :

SLE/CE/31



Description :

Ball Penetration Apparatus (Product Code: SLE/CE/31) is a Kelly ball workability tester used to measure how far a weighted, ball-bottomed cylinder sinks into fresh Portland cement concrete in civil engineering and concrete testing laboratories. Concrete technology classes and site laboratories use it as a simpler, much faster check than the slump test, because twice the Kelly ball reading approximately equals the slump. 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
Test purpose	Workability of fresh Portland cement concrete
Penetrating body	Cylinder with a ball-shaped bottom and a handle
Weight	15 kg (cylinder and handle together)
Handle graduation	Graduated in mm
Reading resolution	Penetration recorded to the nearest 0.5 mm
Guide and reference	Strip frame that guides the handle and serves as the reference for measuring penetration depth
Relation to slump	Twice the Kelly ball reading approximately equals the slump
Product code	SLE/CE/31
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Kelly Ball Apparatus Used For?

The Kelly ball test gives a quick measure of how easily fresh concrete will flow and compact. The strip frame is rested on a levelled surface of freshly placed concrete, the ball-bottomed cylinder is released so it sinks under its own weight, and the depth is read on the graduated handle against the frame. Because the reading is taken directly in the container or form, no cone has to be filled, rodded and lifted, which saves time when many batches must be checked.

In teaching laboratories the apparatus is often run side by side with a slump cone so students can see how the two workability results relate. For more reliable results, take readings at several points away from the container walls and average them, and wipe the ball clean between tests. It is a useful addition to lab equipment for technical institutes that teach concrete mix design.

OEM Manufacturer

Jain Scientific Equipments Private Limited, which trades as ScienceLab, is the OEM (original equipment manufacturer) of this Ball Penetration Apparatus. The apparatus is manufactured at the c
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