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**Product Name :**

Vicat Needle Apparatus With Dashpot

**Product Code :**

SLE/CE/50



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# Description :

**Vicat Needle Apparatus With Dashpot** (Product Code: SLE/CE/50) is a frame-mounted penetration instrument used to determine the standard consistency and the initial and final setting times of cement paste in construction-materials laboratories. Its distinguishing feature is adashpot that lowers the needles gently onto the paste, and it comes with an initial needle, finalneedle and consistency plunger. It is built by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**,an OEM manufacturer, at its own factory in Ambala, India.

## Specifications

| Parameter | Detail |
|---|---|
| Frame | Metallic frame bearing a freely movable rod with a cap at the top |
| Dashpot | Provided for gentle lowering of the needles |
| Needle set | One each: initial setting needle, final setting needle, consistency plunger |
| Vicat mould | Brass, 40 mm high; 80 mm internal diameter at the base and 70 mm at the top |
| Base plates | Glass base plate; mild steel base plate 5 in × 5 in (approx. 127 × 127 mm) |
| Product code | SLE/CE/50 |
| Manufacturer | Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM |
| Country of origin | India (made in Ambala, Haryana) |

## What Is the Vicat Needle Apparatus Used For?

Three linked cement tests use the same frame. The consistency plunger first finds the water content that gives paste of standard consistency; the initial setting needle is then lowered at intervals until the paste starts to resist penetration, and the final setting needle shows when the paste has hardened so that it barely marks the surface. These results set the water content for mortar and soundness specimens and tell site engineers how long cement stays workable.

The dashpot damps the fall so each needle meets the paste without impact, making readings more repeatable between students and operators. It is a core piece of lab equipment for technical institutes teaching building materials. Clean the needle after every penetration, keep the moving rod free-running, and position the mould so that each test point is clear of earlier marks and of the mould edge.

## What to Specify When Ordering

- Number of apparatus sets required for your class or testing bench
- Spare needles: initial setting needle, final setting needle or consistency plunger
- Extra brass Vicat moulds, and whether glass or 5 in × 5 in mild steel base plates are preferred

## OEM

Jain S cat

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