

# VICAT APPARATUS



# Precision Vicat Apparatus for ASTM C187 & ASTM C191 Compliance

Ensure the highest level of accuracy in your materials testing laboratory with our premium Vicat Apparatus. Designed specifically for civil engineering and construction quality control, this instrument is the industry standard for determining the normal consistency and setting times (initial and final) of hydraulic cement, mortar paste, and gypsum.

Engineered for durability and repeatability, our Vicat Apparatus allows technicians to assess the moisture content and hardening characteristics of cementitious materials, ensuring they meet rigorous construction specifications.

## APPLICATIONS

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- **Cement Testing** – Determines the initial and final setting times of cement to assess suitability for construction use.
- **Mortar Paste Evaluation** – Measures consistency and setting behavior for quality control in masonry materials.
- **Gypsum and Plaster Testing** – Modified Vicat Apparatus monitors the setting time of plaster paste with higher precision.
- **Construction Material Development** – Supports research in improving setting properties of cementitious materials.
- **Standards Compliance** – Ensures conformity with ASTM C187-191 and related international specifications.
- **Laboratory and Quality Assurance** – Provides reliable, repeatable testing for manufacturers, contractors, and research facilities.

## FEATURES

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### A. Standard Configuration

Vicat Apparatus comes complete with:

- Initial-set needle, 1.0 mm dia
- Consistency plunger 10 mm dia
- Vicat mould 60/70 dia. X 40mm
- Glass plate and thermometer

Dimensions (wxdxh): 150x220x440 mm

Weight: 3.5 kg

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## **B. Modified Vicat Apparatus**

Modified Vicat Apparatus is designed for testing of gypsum and monitoring of plaster paste, with additional weight 1000g for obtaining a total mass of all moving parts of 1115g.

### **Configuration:**

Modified Vicat Apparatus comes complete with:

- 2 x conical plungers, 8 mm dia
- 2 x Plexiglas plates 108 x 108 x 6 mm
- 2 x Vicat moulds 65/75 mm dia

Conical plunger + weight = 115 g Mass of the moving parts

Supplementary weight: 1 kg including tripping device

Dimensions (wxdxh): 150x220x440 mm

Weight: 3.3 kg

# TECHNICAL SPECIFICATIONS

| Feature                | Standard Model                     | Modified Model          |
|------------------------|------------------------------------|-------------------------|
| Primary Use            | Cement & Mortar (ASTM C187 / C191) | Gypsum & Plaster        |
| Moving Mass            | 300 g                              | 1115 g (Total assembly) |
| Plunger Type           | 10 mm Cylindrical                  | 8 mm Conical            |
| Dimensions (W x D x H) | 150 x 220 x 440 mm                 | 150 x 220 x 440 mm      |
| Net Weight             | 3.5 kg (7.7 lbs)                   | 3.3 kg (7.3 lbs)        |



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