

## CEMENT SOUNDNESS TESTER (LECHATelier)

The **C3251** Cement Soundness Tester is a mold used to determine soundness of cement by measuring the expansion of cement when heated in an atmosphere of steam or boiling water. The tester consists of a brass split ring and two long parallel indicating arms. As cement expands the ring is spread and the increased distance between free ends of indicating arms gives an index of soundness.



C3251



C3261

MODELS	DESCRIPTION	STANDARDS
C3251	CEMENT SOUNDNESS TESTER	ASTM C-183 / AASHTO T-127

ACCESSORIES	DESCRIPTION
C3261	WATER BATH, 110V / 60 Hz
C3262	WATER BATH, 220V / 50 Hz
C3301	LECHATelier FLASK, SPECIFIC GRAVITY

## VICAT APPARATUS WITH MOLD

The **C3501** Vicat Apparatus is used for determining consistency and setting time of hydraulic cement. The apparatus consists of a frame, moveable rod with a variable weights and plunger assemblies, adjustable scale with graduations from 0-50mm, and a conical mold (**C3503**). The apparatus also has a reversible stainless steel plunger which is 10mm at one end and has a 1mm dia stainless steel needle on the other end. The **C3512** Modified Vicat Apparatus is very similar to the **C3503** except it uses a 400 g weight of 10mm plunger, indicator and added weight. The **C3512** is also furnished with the **C3503** mold. The **C3514** Time of Setting Vicat Needle Apparatus is similar to the **C3512** except it features a 17.5 dia needle for consistency determination; 400 g total weight. Also furnished with apparatus, is a 76mm I.D. x 40mm brass ring mold.



MODELS	DESCRIPTION	STANDARDS
C3501	VICAT APPARATUS	ASTM C-91 C-141, C-451, C-187, C-191, C-308, C-359, C-472 / AASHTO T-129, T-131, T-186
C3512	MODIFIED VICAT APPARATUS	
C3514	TIME OF SETTING VICAT NEEDLE APPARATUS	

ACCESSORIES	DESCRIPTION
C3502	FINAL VICAT NEEDLE
C3503	CONICAL MOLD, PLASTIC
C3521	FALSE SET CONAINE, 2" X 2" X 6" I.D.
C3707	2MM ST. STL. VICAT NEEDLE

## MODIFIED VICAT APPARATUS

The **C3515** Modified Vicat Apparatus includes a 35 g magnesium cone for use on unsanded plaster. Also furnished with the apparatus is the **C3503** mold. The **C3516** is very similar to the **C3515** except it features an additional 15 g weight for 50 g total weight for use on sanded plaster. The **C3516** is also furnished with the **C3503** mold.



MODELS	DESCRIPTION	STANDARDS
C3515	MODIFIED VICAT FOR UNSANDED PLASTER	ASTM C-472
C3516	MODIFIED VICAT FOR SANDED PLASTER	