LE-CHATELIER MOULD (SOUNDNESS TEST)

BE 34

It is very important that the cement after setting shall not undergo any appreciable change of volume. Certain cements have been found to undergo a large expansion after setting causing disruption of the set and hardened mass. This will cause serious difficulties for the durability of structures when such cement is used. The unsoundness in cement is due to the presence of excess of free lime than that could be combined with acidic oxide at the kiln. It is also likely that too high a proportion of magnesium content or calcium sulphate content may cause unsoundness in cement. Soundness of cement may be determined by two methods, namely Le-Chatelier method and autoclave method. In the soundness test a specimen of hardened cement paste is boiled for a fixed time so that any tendency to expand is speeded up and can be detected. Soundness means the ability to resist volume expansion

STANDARD FOLLOWING

IS 5514, 1727, 2645, 4031, 6932 (Part-9), BS:890, 915, 1370, 4027, 4226 AND 4248.

DISCRIPTION

BE 34-01	Le Chatelier moulds,30 mm internal dia and 30 mm height
BE 34-02	2 Glass plates, 50 mm sq
BE 34-03	Approximately 100 g weights