Australian/New Zealand Standard™

Methods of testing portland, blended and masonry cements

Method 17: Determination of soundness of masonry cements

1 SCOPE

This Standard sets out a method for determining the soundness of masonry cements using a paste of normal consistency.

NOTES:

1 These testing procedures may involve the use of materials or equipment that require safety measures to be observed.

2 This Standard does not purport to address all of the safety concerns, if any, associated with its use.

3 The user of this Standard should establish appropriate safety and health practices, and determine the applicability of regulatory limitations prior to use.

4 Test data for the determination of statements of repeatability and reproducibility have not yet been evaluated. Such statements will be included in a later revision of this test method or amendment when they become available.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS
2349 Method of sampling portland and blended cements

AS/NZS
2350 Methods of testing portland and blended cements
2350.3 Method 3: Normal consistency of portland and blended cements

3 PRINCIPLE

A measure of the soundness is given by an increase in volume of the hardened cement paste, as indicated by an increase in the gauge length of a test specimen after autoclaving.

4 APPARATUS AND RELATED CONDITIONS

4.1 Laboratory

The air within the laboratory in which the specimens are made and tested shall be maintained at a temperature of 23 ±2°C and a relative humidity of not less than 50%. The humidity-controlled room or cabinet for storing the specimen in the mould shall be continuously maintained at a temperature of 23 ±2°C and a relative humidity of not less than 90%.

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