

Australian Standard[®]

Methods of testing portland, blended and masonry cements

Method 13: Determination of drying shrinkage of cement mortars

AS 2350.13—2006

1 SCOPE

This Standard sets out the method for determining the drying shrinkage of cement mortars of defined composition.

NOTES:

- 1 The test results indicate the potential performances of cement in mortar and concrete mixtures. It should be recognized, however, that drying shrinkage of mortar and concrete is affected by many factors other than cement.
- 2 The testing procedure herein may involve the use of materials or equipment that require safety measures to be observed.
- 3 This Standard does not purport to address all of the safety concerns, if any, associated with its use.
- 4 The user of this Standard should establish appropriate safety and health practices, and determine the applicability of regulatory limitations prior to use.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

- 2350 Methods of testing portland, blended and masonry cements
2350.12 Method 12: Preparation of a standard mortar and moulding of specimens

AS/NZS

- 2350 Methods of testing portland, blended and masonry cements
2350.1 Method 1: Sampling

3 PRINCIPLE

The method comprises the determination of drying shrinkage of prismatic test specimens 40 mm × 40 mm × 150 mm in size.

The mortar is prepared and the specimens are moulded in accordance with AS 2350.12.

The specimens in the mould are stored in a moist atmosphere for 24 h and then the demoulded specimens are stored under drying conditions of 50 ± 5% RH and 23 ± 2°C. Measurement of the specimen length is carried out on demoulding and at the age of 7 d, 14 d, 21 d and 28 d from moulding.