

STANDARDS AUSTRALIA

Amendment No. 1

to

AS 3583.1—1998

Methods of test for supplementary cementitious materials for use with portland and blended cement

Method 1: Determination of fineness by the 45 micrometre sieve

REVISED TEXT

The 1998 edition of AS 3583.1 is amended as follows; the amendment should be inserted in the appropriate place.

SUMMARY: This Amendment applies to Appendix A.

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Appendix A

Delete existing text and replace with the following:

APPENDIX A CALIBRATION OF TEST SIEVE

(Normative)

For the purpose of this procedure, a certified reference material, suitable for the calibration of a 45 micron sieve shall be used.

Sieves shall be calibrated when new and at intervals not exceeding 100 determinations. First inspect the cloth of the sieve to be calibrated for obvious imperfections or damage, which shall be grounds for rejection.

The mass of residue obtained from the reference material shall be determined using the procedure described in Clause 7.

Calculate the correction (f) for the sieve as follows:

$$f = \frac{P_r}{100} + \frac{P_t}{S}$$

where

P_r = reference value for reference material, in percent

P_t = mass of reference material retained on the sieve, in grams

S = mass of sample, in grams

The value of f is to be expressed to the nearest 0.001.

The sieve shall be rejected if the value of f fails to lie in the range of 1 ± 0.050 .

Example:

Using a reference material of known fineness, say 87.6% passing 45 μm , the residue obtained was 0.104 g from a sample of 0.985 g, i.e.—

$$\begin{aligned} f &= \frac{87.6}{100} + \frac{0.104}{0.985} \\ &= 0.982 \end{aligned}$$

NOTES:

- 1 Suitability of reference material should give due consideration to its stability in water and its particle size distribution.
- 2 Certified calibration reference materials for fly ash fineness determination can be obtained from the Ash Development Association of Australia (www.adaa.asn.au) or Cement Concrete & Aggregates Australia (www.ccaa.com.au).