



Certificate of Compliance

Fly Ash Standard Reference Material

This Standard Reference Material (SRM) is intended for use in calibrating the 45µm sieve for determination of fineness by the test method specified in the Australian Standard AS 3583.1, *Methods of test for supplementary cementitious materials for use with Portland Cement. Method 1: Determination of fineness by the 45µm sieve.*

The SRM unit consists of 2040 sealed jars, each containing 500mls of fly ash that has been blended to a high degree of homogeneity.

Certified Values and Uncertainties

The Ash Development Association of Australia (ADAA) has the highest confidence in the accuracy of its certified values. The certified values are the result of several analyses carried out by Boral Lab, combined with an interlab comparison of four major testing facilities. All known and suspected sources of bias have been investigated or accounted for. The SRM has a certified value (fineness) of 87.6 percent.

Minimum Value	= 86.7
Maximum Value	= 88.5
Certified Value	= 87.6
Uncertainty	= 0.1

Residue on 45 Electroformed sieve was found to be 0.104 g from a sample of 0.985 g,

i.e.

$$f = \frac{80.8}{100} + \frac{0.104}{0.98} = 0.982$$

Expiration of Certification

The certification of SRM is valid, within the measurement uncertainties specified, until the certified batch of 2040 sealed jars have been consumed. The SRM has been handled in accordance with the instructions provided in this certificate.

Maintenance of Certification

The ADAA will monitor SRM samples over the period of its certification. If substantial changes occur which affect the certification before the expiration date, purchasers will be notified by the ADAA.

Notice and warnings to users

These SRM's are sold individually. Only one (1) Certificate of Compliance is provided for the total 2040 sealed jars. It is the responsibility of the purchaser to re-seal the jar after each use to prevent moisture contamination. Unused portion should be stored in a desiccator where possible. Materials are moisture sensitive. Accordingly the SRM may change if exposed to moisture.

Stability and Use

These materials are considered stable, however their stability has not been rigorously assessed. The ADAA will monitor the stability of these SRM's and report any substantive changes to the purchaser. To open jar, remove black seal and unscrew the lid counter-clockwise.

Material Selection and Packaging

An investigation into existing SRM's was carried out. No readily available SRM was found to be available or suitable. The ADAA accordingly selected an Eastern Australian fly ash from Eraring Power Station, located in New South Wales. The fly ash was found to be a suitable replacement for the previous SRM fly ash. The desired properties were determined to be suitable.

Homogeneity Assessment and Certification Analyses

Homogeneity testing of the material was performed on 17 random-selected samples to verify consistency. No significant sample to population variability was detected.

Users of this SRM should ensure their calibration certificate is current. To obtain the most recent certificate, visit our website www.adaa.asn.au, or contact our office on telephone (02) 4228 1389; fax (02) 4258 0169; e-mail: info@adaa.asn.au