

Australian Standard™

Methods for sampling and testing aggregates

Method 2: Basic testing equipment

1 SCOPE This Standard sets out requirements for basic equipment used in the performance of tests in the AS 1141 series. Calibration and maintenance requirements for equipment are included in this Standard as well as other parts of AS 1141. Requirements for specialized testing equipment, specific to each test, are included in the appropriate test methods.

2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS

1006 Solid-stem general purpose thermometers

1141 Methods for sampling and testing aggregates

1141.24 Method 24: Aggregate soundness—Evaluation by exposure to sodium sulphate solution

1152 Specification for test sieves

1289 Methods of testing soil for engineering purposes

1289.0 Method 0: General requirements and list of methods

CSIRO The Calibration of Balances (1985) by David B. Prowse

3 EQUIPMENT

3.1 General Standard items of laboratory equipment in everyday use, such as test tubes, Petri dishes, beakers, mechanical stirrers, mortar and pestles, stirring rods, mixing apparatus, dishes and trays, spatulas, and similar items are not described in this Standard. Similarly, tools such as shovels or trowels, ancillary equipment such as barrows or trolleys, and miscellaneous items such as brooms, bags and brushes are not described. These and similar aids, should be of good commercial quality to ensure successful sampling and testing.

3.2 Calibration Equipment used in all methods in this series, shall be measured and calibrated before being put into use, after repair and at appropriate intervals, to ensure compliance with this Standard including the requirements of the relevant method. Recalibration intervals for certain testing equipment are specified within this Standard. Laboratories may need to vary these intervals dependent on factors such as amount of use, the specific testing equipment, and the intended use of the results. Equipment checks are normally performed internally by individual laboratories. Calibration and recalibration of equipment shall be carried out by an accredited laboratory.

4 MAXIMUM INTERVALS BETWEEN CALIBRATIONS AND CHECKS

4.1 General Equipment shall be calibrated and checked at intervals not exceeding those shown in Clause 4.2 to 4.9. The intervals given are maximum, and in cases of high use or for equipment that is subject to wear these intervals should be reduced.