

Australian Standard[®]

Methods for sampling and testing aggregates

Method 52: Unconfined cohesion of compacted pavement materials

1 SCOPE This Standard sets out the method for determining indirectly the unconfined cohesion of compacted pavement materials. The method is applicable to that fraction of the material passing a 19.0 mm test sieve.

The method is not applicable to material with a plasticity index greater than 3.

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

AS

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|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1012 | Methods of testing concrete |
| 1012.9 | Part 9: Method for the determination of the compressive strength of concrete specimens |
| 1141 | Methods for sampling and testing aggregates |
| 1141.2 | Part 2: Basic testing equipment |
| 1141.3 | Part 3: Sampling of aggregates and rock |
| 1289 | Methods of testing soils for engineering purposes |
| 1289.5.2.1 | Part 5.2.1: Soil compaction and density tests—Determination of the dry density/moisture content relation of a soil using modified compactive effort |
| 2193 | Methods for calibration and grading of force-measuring systems of testing machines |

3 APPARATUS The following apparatus, complying with the relevant provision of AS 1141.2, is required:

- (a) *Balance*—of sufficient capacity, with a limit of performance not exceeding ± 5 g.
- (b) *Base*—a flat rigid foundation on which to compact the specimen, e.g. a concrete floor or concrete block of at least 100 kg mass.
- (c) *Containers*—airtight, suitable for curing moistened test samples.
- (d) *Datum bar*—a metal bar approximately 200 mm \times 20 mm \times 10 mm dimensions.
NOTE: Regardless of the actual width and thickness dimensions, the longitudinal opposite faces of the bar are plane and parallel to within 0.1 mm.
- (e) *Dishes*—metal, of about 225 mm and 350 mm diameter.
- (f) *Equipment*—for measuring test specimens, accurate and readable to 1 mm, e.g. vernier gauge calliper.
- (g) *Filter paper*—150 mm diameter coarse filter paper (optional).
- (h) *Mixing apparatus*—bowl, trowel, spatula, and metal quartering plates about 400 mm by 125 mm and 200 mm by 125 mm.

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