

STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 1141.15–1999

**Methods for sampling and testing aggregates
Method 15: Flakiness index**

RECONFIRMATION NOTICE

Technical Committee CE-012 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 29 March 2018.

The following are represented on Technical Committee CE-012:

ARRB (Australian Road Research Board)
Ash Development Association of Australia
Australasian (iron & steel) Slag Association
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NOTES

Australian Standard[®]

Methods for sampling and testing aggregates

Method 15: Flakiness index

This Standard incorporates Amendment No. 1 (April 2016). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

1 SCOPE

This Standard sets out a method for determining the flakiness index of an aggregate. The Method applies to aggregates having a nominal size not greater than 63.0 mm and having at least 80% by mass retained on a 4.75 mm sieve. The Method makes reference to a particle size distribution procedure which is required for determination of flakiness index.

2 REFERENCED DOCUMENTS

The documents below are referred to in this Standard:

AS

| | |
|---------|---|
| 1141 | Methods for sampling and testing aggregates |
| 1141.2 | Method 2: Basic testing equipment |
| 1141.11 | Method 11: Particle size distribution by dry sieving |
| 1141.12 | Method 12: Material finer than 75 µm in aggregates (by washing) |
| 1152 | Specification for test sieves |

3 DEFINITIONS

For the purpose of this Standard, the definitions below apply:

3.1 'Mean dimension

The mean of the smallest sieve aperture through which the particle passes and the largest sieve on which the particle is retained.

3.2 Flaky particle

A particle with a least dimension (thickness) less than 0.6 of its mean dimension.

3.3 Flakiness index

The percentage by mass of flaky particles.

NOTE: For all shape factors the relative effect between size fractions is volumetric and not gravimetric but, in practice, testing and calculations are carried out on a 'per mass' basis. This does not introduce significant error unless the test sample contains particles of markedly different densities.