



Methods for sampling and testing aggregates

Method 32: Weak particles (including clay lumps, soft and friable particles) in coarse aggregates



AS 1141.32:2019

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- Australasian (iron & steel) Slag Association
- Australasian Procurement and Construction Council
- Australian Asphalt Pavement Association
- Australian Geomechanics Society
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- Engineering & Construction Laboratories Association
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Preface

This Standard was prepared by the Standards Australia Committee CE-012, Aggregates and Rock for Engineering Purposes, to supersede AS 1141.32—2008, *Methods for sampling and testing aggregates, Method 32: Weak particles (including clay lumps, soft and friable particles) in coarse aggregates*.

The objective of this Standard is to set out the method for determining the percentage of weak particles in coarse aggregates.

The major changes in this edition are as follows:

- (a) Inclusion of this Preface.
- (b) Additional terms and definitions.
- (c) A change to the definition of weak particles.

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Australian Standard®

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1 Scope

This Standard sets out the method for determining the percentage of weak particles in coarse aggregates.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

AS 1141.1, *Methods for sampling and testing aggregates, Part 1: Definitions*

AS 1141.2, *Methods for sampling and testing aggregates, Method 2: Basic testing equipment*

3 Terms and definitions

For the purpose of this document, the terms and definitions given in AS 1141.1 and those below apply.

3.1

may

indicates the existence of an option

3.2

shall

indicates that a statement is mandatory

3.3

should

indicates a recommendation

3.4

weak particles

particles present in an aggregate sample that are identified visually by texture or colour, that can be easily broken or abraded by hand or that deform or can be broken under finger pressure after soaking in water for 24 h (e.g. clay lumps, soft and friable particles)

4 Apparatus

Apparatus conforming to the relevant provisions of AS 1141.2 and the following shall be used:

- (a) *Balance* — of sufficient capacity, with a limit of performance not exceeding ± 5 g for mass determinations greater than 2.0 kg and of ± 0.5 g for mass determinations of 2.0 kg or less.
- (b) *Containers* — Metal dishes, capable of holding sample of the size specified in [Table 1](#) and conforming to the requirement of [Clause 6\(a\)](#).
- (c) *Oven* — Thermostatically controlled oven, preferably with forced air circulation, capable of maintaining a temperature within the range of 105 °C and 110 °C.
- (d) *Sample dividers or quartering equipment*.
- (e) *Sieve* — 2.36 mm woven wire sieve.