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Australian STANDARD®

STANDARDS Australia

Methods for sampling and testing aggregates

Method 30.1: Coarse aggregate quality by visual comparison

AS 1141.30.1:2022

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ARRB (Australian Road Research Board)
Ash Development Association of Australia
Australasian (iron and steel) Slag Association
Australasian Procurement and Construction Council (APCC)
Australian Flexible Pavement Association
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Cement Concrete and Aggregates Australia — Cement
Cement Concrete and Aggregates Australia — Concrete
Engineers Australia/Australian Geomechanics Society
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Method 30.1: Coarse aggregate quality by visual comparison

Originated as part of AS 1141.30—1983.
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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 1141.30.1—2009.

The objective of this document is to set out the method for determining a quality classification of coarse aggregate by visual comparison with pre-prepared reference specimens.

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Method 30.1: Coarse aggregate quality by visual comparison

1 Scope

This document sets out the method for determining a quality classification of coarse aggregate by visual comparison with pre-prepared reference specimens.

The method is used to determine the proportion of particles in a sample with different quality characteristics which can be distinguished by visual characteristics. In some sources, it may be difficult to establish a rock quality classification based on visual comparison alone. In such cases, the method is inappropriate.

The method necessitates that the rock source, or sources from which the test sample is derived, is known. Where a sample contains a combination of aggregate from different sources, each component of the combination needs to be from a visually recognizable source.

The method is appropriate for material up to 75 mm nominal size. The method is also appropriate for testing fractions of the material retained on the 4.75 mm sieve.

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.

NOTE Documents referenced for informative purposes are listed in the Bibliography.

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

AS 1141.30.2, *Methods for sampling and testing aggregates, Method 30.2: Preparation of aggregate reference specimens for visual comparison*

3 Terms and definitions

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

3.1
may
indicates the existence of an option

3.2
reference specimen
small volume of crushed particles of about 10 mm nominal size, from a visually distinguishable material type sampled during a quarry investigation and subsequently classified in terms of quality, which are intended for use as a visual comparison against a quarry product sample

Note 1 to entry: Reference specimens for all visually distinguishable material types should be available for each source that will be tested according to this method. Instructions for the preparation of reference specimens are given in AS 1141.30.2.

3.3
shall
indicates that a statement is mandatory