

AS 1141.3.1:2021



Methods for sampling and testing aggregates

Method 3.1: Sampling — Aggregates



AS 1141.3.1:2021

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- Australian Geomechanics Society
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- Cement Concrete & Aggregates Australia — Aggregates
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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 1141.3.1—2012.

The objective of this document is to define procedures that enable collection of samples that will represent the properties of aggregates produced from rock, gravel, sand and recycled aggregate plants.

The procedures address the common situations faced when obtaining samples in the field.

The major changes in this edition are as follows:

- (a) Addition of this Preface.
- (b) Additional terms and definitions, see [Clause 3](#).
- (c) Recognition of the variation in test results between plant produced samples and sample crushed in a laboratory, see [Clause 6.4](#).
- (d) The appendix has been reformatted into three informative appendices addressing the following topics:
 - (i) the sample terminology used in the AS 1141 series is discussed in [Appendix A](#);
 - (ii) the issue of segregation in aggregate and methods of sampling to avoid bias is discussed in [Appendix B](#); and
 - (iii) sampling schemes and the evaluation of samples are discussed in [Appendix C](#).

The terms “normative” and “informative” are used in Standards (and other publications) to define the application of the appendices to which they apply. A “normative” appendix is an integral part of a Standard, whereas an “informative” appendix is only for information and guidance.

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Section 1 Scope

This document defines requirements and specifies methods for:

- (a) taking samples of coarse and fine aggregates;
- (b) subdividing samples; and
- (c) packing and forwarding samples for examination and testing.

This document is limited to aggregate and rock products with a nominal size of 75 mm or less.

The document may be applied to non-stabilized soil product or soil and rock blends, provided that the maximum particle size is less than 75 mm.

For rock, aggregate and soil products larger than 75 mm, refer to AS 1141.3.2.

NOTE 1 Provided that care is taken in adapting them, the procedures specified in this document may be used for sampling other materials such as compacted layers of soil in earthworks construction, or asphaltic concrete prior to compaction.

NOTE 2 The AS 1289 series refers to this document in relation to soil sampling.