

Australian Standard®

AS 1141.24—2013

Methods for sampling and testing aggregates
Method 24: Aggregate soundness—Evaluation
by exposure to sodium sulphate solution

PREFACE

This Standard was prepared by Standards Australia Committee CE-012, Aggregates and Rock for Engineering Purposes, to supersede AS 1141.24—1997.

This Standard incorporates Amendment No. 1 (December 2013). 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.

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- (a) Clause 7(c) Containers (modified)
- (b) Note to Clause 9
- (c) Note to Clause 9(a) (modified)

1 SCOPE

This Standard sets out the method for the testing of aggregates to determine the loss of mass due to disintegration when exposed to sodium sulfate solutions over repeated cycles of wetting and drying. The Standard furnishes information helpful in judging the soundness of aggregate subject to weathering action, particularly when adequate information is not available from service records of the material exposed to actual weathering conditions.

2 APPLICATION

The values obtained from this method may be used for comparison in specifications, e.g. AS 2758.1 and AS 2758.2. Since the precision of this test is poor in both repeatability and reproducibility, it may not be suitable for the outright rejection of aggregates without confirmation from other tests more closely related to the specific intended use.

Values for permitted percent loss by this method for fine aggregates may be different to those for coarse aggregates.

This Standard requires the method specified in AS 1141.11.1 to be performed during preparation of the test portions.