

Australian Standard®

AS 1141.24:2018

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

PREFACE

This Standard was prepared by Standards Australia Committee CE-012, Aggregates and Rock for Engineering Purposes, to supersede AS 1141.24—2013.

IMPORTANT COPYRIGHT INFORMATION

The following clauses have been reprinted, with permission, from ASTM C88:2005, ‘*Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate*’, copyright ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA, 19428:

- (1) Clause 7(c) Containers (modified).
- (2) Note to Clause 9.
- (3) Note to Clause 9(a) (modified).

A copy of the complete ASTM Standard may be obtained from ASTM International, www.astm.org

1 SCOPE

This Standard sets out the method for testing 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.