

Australian Standard<sup>®</sup>

**Aggregates and rock for engineering  
purposes**

**Part 5: Coarse asphalt aggregates**



This Australian Standard® was prepared by Committee CE-012, Aggregates and Rock for Engineering Purposes. It was approved on behalf of the Council of Standards Australia on 18 September 2009.

This Standard was published on 11 November 2009.

---

The following are represented on Committee CE-012:

- ARRB Group Ltd
  - Australasian Railway Association
  - Australasian Slag Association
  - Australian Asphalt Pavement Association Limited
  - Australian Chamber of Commerce and Industry
  - Australian Geomechanics Society
  - AUSTROADS
  - Bureau of Steel Manufacturers of Australia
  - Cement Concrete and Aggregates Australia
  - Engineering and Construction Laboratories Association
  - National Association of Testing Authorities Australia
  - The Institute of Quarrying Australia
- 

This Standard was issued in draft form for comment as DR 09044.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

---

### **Keeping Standards up-to-date**

Australian Standards® are living documents that reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued.

Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments that may have been published since the Standard was published.

Detailed information about Australian Standards, drafts, amendments and new projects can be found by visiting **[www.standards.org.au](http://www.standards.org.au)**

Standards Australia welcomes suggestions for improvements, and encourages readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at **[mail@standards.org.au](mailto:mail@standards.org.au)**, or write to Standards Australia, GPO Box 476, Sydney, NSW 2001.

---

Australian Standard<sup>®</sup>

**Aggregates and rock for engineering  
purposes**

**Part 5: Coarse asphalt aggregates**

First published as AS 2758.5—1996.  
Second edition 2009.

**COPYRIGHT**

© Standards Australia

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Published by Standards Australia GPO Box 476, Sydney, NSW 2001, Australia

ISBN 0 7337 9302 9

## PREFACE

This Standard was prepared by the Standards Australia Committee CE-012, Aggregates and Rock for Engineering Purposes, to supersede AS 2758.5—1996.

This Standard is part of the AS 2758 series of Standards that covers specifications for aggregates and rock for engineering purposes, as follows:

### AS

2758	Aggregates and rock for engineering purposes
2758.0	Part 0: Definitions and classification
2758.1	Part 1: Concrete aggregates
2758.2	Part 2: Aggregate for sprayed bituminous surfacing
2758.4	Part 4: Aggregate for gabion baskets and wire mattresses
2758.5	Part 5: Coarse asphalt aggregates (this Standard)
2758.6	Part 6: Guidelines for the specification of armourstone
2758.7	Part 7: Railway ballast

The objective of this Standard is to provide a basis for specifying requirements for coarse aggregates for use in the manufacture of asphalt.

The term 'informative' has been used in this Standard to define the application of the appendix to which it applies. An 'informative' appendix is for information and guidance only.

## CONTENTS

	<i>Page</i>
1 SCOPE.....	4
2 APPLICATION.....	4
3 REFERENCED DOCUMENTS .....	4
4 DEFINITIONS.....	5
5 SAMPLING .....	6
6 TESTING.....	6
7 DIMENSIONAL REQUIREMENTS .....	6
8 DURABILITY .....	7
9 WEAK PARTICLES.....	8
10 RESISTANCE TO STRIPPING.....	8
11 FRICTIONAL CHARACTERISTICS.....	9
12 WATER ABSORPTION AND PARTICLE DENSITY .....	9
APPENDIX A GUIDANCE FOR THE DETERMINATION OF SUSCEPTIBILITY OF AGGREGATE TO POLISHING .....	10

**STANDARDS AUSTRALIA****Australian Standard****Aggregates and rock for engineering purposes****Part 5: Coarse asphalt aggregates****1 SCOPE**

This Standard provides a basis for specifying requirements for coarse aggregates for use in the manufacture of asphalt. The requirements relate to quality of rock and other properties of coarse aggregates. A coarse aggregate may be produced from rock, gravel, metallurgical slag or suitable synthetic materials.

**2 APPLICATION**

This Standard shall not be used on its own as a works specification for contract purposes. While a number of the requirements nominated are basic, the specifier shall make a selection from the options available in this Standard, or from alternative test methods and limits (which may be from Australian Standards or other appropriate Standards) for incorporation into a works specification.

The basic requirements for asphalt aggregates are set out in Clauses 8 to 11. Alternatives are presented for the determination of both shape and durability. However, not more than one of these alternatives shall be specified for each property.

The selection of test procedures and test limits, where alternatives are provided and the frequency at which individual tests are required, shall be determined by the individual works specification.

The works specification should specify all the tests appropriate to the source rock or the tender samples, or both, but the whole range of tests is not necessarily applied to control acceptance of the product during the performance of a contract.

For contractual purposes it is the works specification that is binding.

The case may arise where a contract document uses terms such as ‘material complying with AS 2758.5’ without providing a works specification. In such an event the supplier shall attempt to obtain further details from the purchaser. In the absence of a works specification, material will be deemed to comply with this Standard (AS 2758.5) if the supplier operates a quality system certified to AS/NZS ISO 9001 and can provide test data from a laboratory accredited to AS ISO/IEC 17025 showing that the material to be supplied fulfils the requirements of Clauses 7 to 10 of this Standard.

**3 REFERENCED DOCUMENTS**

The following documents are referred to in this Standard:

**AS**

- 1141 Methods for sampling and testing aggregates
- 1141.3.1 Method 3.1: Sampling—Aggregates
- 1141.6.1 Method 6.1: Particle density and water absorption of coarse aggregate—Weighing-in-water method
- 1141.6.2 Method 6.2: Particle density and water absorption of coarse aggregate—Pycnometer method
- 1141.11.1 Method 11.1: Particle size distribution—Sieving method