

Australian Standard[®]

**Aggregates and rock for engineering
purposes**

**Part 2: Aggregate for sprayed
bituminous surfacing**



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 6 March 2009.

This Standard was published on 26 August 2009.

The following are represented on Committee CE-012:

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

This Standard was issued in draft form for comment as DR 08185.

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Standards may also be withdrawn.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**

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**, or write to Standards Australia, GPO Box 476, Sydney, NSW 2001.

Australian Standard[®]

Aggregates and rock for engineering purposes

Part 2: Aggregate for sprayed bituminous surfacing

First published as AS 2758.2—1985.
Third 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 9228 6

PREFACE

This Standard was prepared by the Standards Australia Committee CE-012, Aggregates and Rock for Engineering Purposes, to supersede AS 2758.2—1996.

This Standard is part of a series that covers specification 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 (this Standard)
- 2758.4 Part 4: Aggregate for gabion baskets and wire mattresses
- 2758.5 Part 5: Asphalt aggregates
- 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 aggregates intended for use in sprayed bituminous surfacing.

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

CONTENTS

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

STANDARDS AUSTRALIA

Australian Standard

Aggregates and rock for engineering purposes

Part 2: Aggregate for sprayed bituminous surfacing

1 SCOPE

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

2 APPLICATION

This Standard cannot be used on its own as a works specification for contract purposes. While a number of the requirements nominated in this Standard 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 all surfacing aggregates are prescribed in Clauses 8 to 12. Alternatives are given for the assessment of both shape and durability. However, only one alternative 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 which is binding.

The case may arise where a contract document uses terms such as ‘material complying with AS 2758.2’ without providing a works specification. In such a case, 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 AS 2758.2 if the supplier operates a quality system certified to AS/NZS ISO 9000 and can provide test data from a laboratory accredited to AS ISO/IEC 17025 showing that material to be supplied fulfils the requirements of Clauses 8 to 11 of this Standard. If the durability requirements of Clauses 9.3 or 9.4 are adopted, the material shall meet the requirements of Class B.

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
1141.3.2	Method 3.2: Sampling—Rock spalls, boulders and drill core
1141.11.1	Method 11.1: Particle size distribution—Sieving method
1411.11.2	Method 11.2 Particle size distribution for vision sizing systems
1141.14	Method 14: Particle shape, by proportional calliper