

~~SUPERSEDED BY~~

In part

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In part

# Australian Standard 2150-1978

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## ASPHALT (HOT-MIXED)

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THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL ORGANIZATIONS and departments were officially represented on the committee entrusted with the preparation of this standard:

Associated Chambers of Manufactures of Australia  
Australian Asphalt Pavement Association Limited  
Australian Gas Association  
Australian Road Research Board  
Bureau of Steel Manufacturers of Australia  
Department of Construction  
Institution of Engineers, Australia  
Local Government Associations  
National Association of Australian State Road Authorities

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This standard, prepared by Committee CH/25, Bitumen and Related Products (for Roadmaking), was approved on behalf of the Council of the Standards Association of Australia on 26 January 1978, and was published on 1 April 1978.

To keep abreast of progress in industry, Australian standards are regularly reviewed. Suggestions for improvements to published standards, addressed to the head office of the Association, are welcomed.

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*This standard was issued in draft form for public review as DR 76081.*

**AUSTRALIAN STANDARD SPECIFICATION**

**ASPHALT  
(HOT-MIXED)**

**AS 2150-1978**

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## PREFACE

This standard was prepared by the Association's Committee on Bitumen and Related Products (for Roadmaking) under the direction of the Chemical Standards Board. It is one of a series of standards relating to material for roadmaking purposes. Other standards in the series are as follows:

- AS 1160 Bitumen Emulsions for Construction and Maintenance of Pavements
- AS 1507 Road Tars for Pavements
- AS 2008 Residual Bitumen for Pavements
- AS 2157 Cutback Bitumen

The standard encompasses a wide range of requirements including raw material specifications, ordering, manufacturing details, storage, delivery and sampling.

This standard may require reference to the following standards:

- AS 1141 Methods for Sampling and Testing Aggregates
- AS 1152 Test Sieves
- AS 1289 Methods of Testing Soils for Engineering Purposes
- AS 1465 Dense Natural Aggregates for Concrete
- AS 1507 Road Tars for Pavements
- AS 2008 Residual Bitumen for Pavements
- AS A7 Mineral Filler for Bituminous Paving Mixtures
- AS B75 External Micrometers
- AS R25 Dean and Stark Apparatus
- BS 594 Rolled Asphalt (Hot Process) for Roads and Other Paved Areas
- BS 812 Methods for Sampling and Testing of Mineral Aggregates, Sands and Fillers
- ASTM D1461 Test Method for Moisture or Volatile Distillates in Bituminous Paving Mixtures
- ASTM D1559 Test Method for Resistance to Plastic Flow of Bituminous Mixtures Using Marshall Apparatus
- ASTM D2489 Test Method for Degree of Particle Coating of Bituminous-aggregate Mixtures

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## CONTENTS

| SPECIFICATION   | <i>Page</i> |
|---|-------------|
| 1 Scope .. .. .   | 4           |
| 2 Definitions .. .. .   | 4           |
| 3 Materials .. .. .   | 5           |
| 4 Properties of Plant Mix and Their Evaluation .. .. .                            | 5           |
| 5 Bases for the Specification of a Mix .. .. .                                    | 8           |
| 6 Manufacturing Requirements .. .. .  | 9           |
| 7 Storage of Mix .. .. .  | 11          |
| 8 Delivery of Mix .. .. .   | 12          |
| 9 Sampling and Testing .. .. .  | 12          |
| <b>APPENDICES</b>   |             |
| A Determination of Bitumen Content and Aggregate Grading (Bitumen Binder) .. .. . | 14          |
| B Determination of Tar Content and Aggregate Grading (Tar Binder) .. .. .         | 18          |
| C Determination of Stability and Flow by the Marshall Procedure .. .. .           | 21          |
| D Determination of Stability by the Modified Hubbard-Field Procedure .. .. .      | 30          |
| E Determination of Maximum Density .. .. .  | 36          |
| F Determination of Maximum Theoretical Density (MTD) .. .. .                      | 39          |
| G Determination of Bulk Density and Voids Content of Compacted Asphalt .. .. .    | 41          |
| H Determination of Moisture Content .. .. .                                       | 45          |
| J Recommended Form for Schedule of Job Requirements .. .. .                       | 47          |
| K Requirements for Aggregates .. .. .   | 50          |

## STANDARDS ASSOCIATION OF AUSTRALIA

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**Australian Standard Specification  
for  
ASPHALT (HOT-MIXED)**

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**1 SCOPE.** This specification applies to the manufacture and supply of asphalt (hot-mixed) for paving uses. It deals with the following aspects:

Raw material specifications

Ordering

Mix properties and requirements

Manufacturing, storage and delivery requirements

Sampling

A schedule of job requirements to be completed by the purchaser.

NOTE: A suggested form of schedule is included in Appendix J.

**2 DEFINITIONS.** For the purposes of this specification, the following definitions apply:

*Bituminous* — having physical properties similar to those of bitumen or tar or containing substances having such properties.

*Asphalt* — a mixture of bituminous binder and aggregate with or without mineral filler produced hot in a mixing plant and delivered to the purchaser in a hot condition ready for spreading and compaction. Where the term 'plant mix' or the term 'mix' is used in this specification it shall mean asphalt hot-mixed.

*Coarse aggregate* — all that aggregate retained on a 4.75 mm AS sieve.\*

*Fine aggregate* — all that aggregate passing a 4.75 mm AS sieve and retained on a 75  $\mu$ m AS sieve.\*

*Mineral filler* — aggregate composed of particles passing a 75  $\mu$ m AS sieve.

*Maximum theoretical density (MTD)* — the maximum density that could be achieved in a sample of the mix if it were possible to compact it so as to exclude all air voids between coated aggregate particles.

*Bulk density* — the mass per unit volume of the compacted mix (expressed in tonnes per cubic metre), the volume being the gross volume including the permeable and impermeable voids.

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\* See AS 1152, Test Sieves.