

Australian Standard[®]

**ROAD TAR
FOR PAVEMENTS**

The following scientific, industrial and governmental organizations and departments were officially represented on the committee entrusted with the preparation of this standard:

Australian Asphalt Pavement Association Limited
Australian Gas Association
Australian Institute of Petroleum Limited
Australian Road Research Board
Bureau of Steel Manufacturers of Australia
Confederation of Australian Industry
Department of Housing and Construction
Institution of Engineers, Australia
Local Government Associations
National Association of Australian State Road Authorities

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FOR PAVEMENTS**

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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, to supersede AS 1507—1976.

This standard is one of a series 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 2008 Residual Bitumen for Pavements

AS 2150 Asphalt (Hot-mixed)

AS 2157 Cutback Bitumen

The main change in this edition is the deletion of appendices covering methods of test. Reference is now made to methods embodied in AS 2341, Methods of Testing Bitumen and Related Roadmaking Products.

This standard recognizes a wide source of supply of crude tar, and the classification system is based on usage rather than on the characteristics of tar.

Appendix A, Purchasing Guidelines, has been added in order to provide a basis for contractual matters.

This standard requires reference to the following Australian standards:

- AS 2341 Methods of Testing Bitumen and Related Roadmaking Products
- 2341.4 —Determination of Dynamic Viscosity by Rotational Viscometer
 - 2341.6 —Determination of Density Using an Hydrometer
 - 2341.7 —Determination of Density Using a Density Bottle
 - 2341.8 —Determination of Matter Insoluble in Toluene
 - 2341.9 —Determination of Water Content (Dean & Stark)
 - 2341.17—Determination of Distillation Properties of Tar
 - 2341.18—Determination of Softening Point of Tar (Ring and Ball Method)
 - 2341.19—Determination of Matter Insoluble in Quinoline for Tar
 - 2341.20—Determination of Sieve Residue for Tar

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard
for
ROAD TARs FOR PAVEMENTS

1 SCOPE. This standard specifies requirements for tars for use in the construction and maintenance of pavements.

NOTE: Purchasing guidelines are set out in Appendix A.

2 SOURCE. The tars shall be prepared from crude tar produced from one of the following sources;

- (a) Slot-type coke ovens (Coke-oven tar).
- (b) High temperature cracking of petroleum fractions (Petroleum tar).
- (c) Horizontal-retort gas-making plant (Horizontal-retort tar).
- (d) Vertical-retort gas-making plant (Vertical-retort tar).

NOTE: The purchaser may specify the source of the tar (see Appendix A, Paragraph A3(c)).

3 CLASSIFICATION AND GRADING. Road tars shall be classified and graded according to their dynamic viscosity at 50°C (see Table 1). The grade shall be designated and classified as follows:

Grade designation	Classification
T0.008	} Precoating and Light priming
T0.02	
T0.04	
T0.2	} Heavy Priming
T0.8	
T2	} Primer-sealing
T5	
T13	
T30	} Sealing and Mixing
T80	
T200	
T500	

4 PROPERTIES.

4.1 General. When determined in accordance with the methods prescribed in Table 1, the properties of the road tar shall comply with the requirements stated therein for the class and grade specified.

4.2 Homogeneity. Road tars shall be homogeneous and shall show no segregation after standing for 48 h.

5 SAMPLING. Road tars shall be sampled in accordance with the methods given in Appendix B.