

Australian Standard[®]

Cutback bitumen

This Australian Standard was prepared by Committee CH/25, Bitumen and Related Products (for Roadmaking). It was approved on behalf of the Council of Standards Australia on 14 March 1997 and published on 5 June 1997.

The following interests are represented on Committee CH/25:

ARRB Transport Research
Australian Asphalt Pavement Association
Australian Chamber of Commerce and Industry
Australian Institute of Petroleum
AUSTROADS
Bureau of Steel Manufacturers of Australia
New Zealand Bitumen Contractors Association
The Works Consultancy Services, New Zealand

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Originated as AS A131—1966.
Previous edition as AS 2157—1980.
Third edition 1997.

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CH/25, Bitumen and Related Products (for Roadmaking), to supersede AS 2157—1980. This Standard is the result of a consensus among Australian and New Zealand representatives on the Joint Committee that it be produced as an Australian Standard.

This Standard is one of a series relating to material for roadmaking purposes, and its objective is to provide manufacturers and suppliers with requirements for medium-curing cutback bitumen for roadmaking purposes. Other Standards in the series are as follows:

AS

1160 Bitumen emulsions for construction and maintenance of pavements

1507 Road tars for pavements

2008 Residual bitumen for pavements

2150 Hot mix asphalt

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

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STANDARDS AUSTRALIA

Australian Standard**Cutback bitumen**

1 SCOPE This Standard specifies requirements for medium-curing cutback bitumen for roadmaking purposes.

NOTE: Purchasing guidelines are set out in Appendix A.

2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS

2008	Residual bitumen for pavements
2341	Methods of testing bitumen and related roadmaking products
2341.2	Determination of dynamic (coefficient of shear) viscosity by flow through a capillary tube
2341.4	Determination of dynamic viscosity by rotational viscometer
2341.5	Determination of apparent viscosity by 'Shell' sliding plate micro-viscometer
2341.6	Determination of density using a hydrometer
2341.7	Determination of density using a density bottle
2341.15	Distillation of cutback bitumen
2341.16	Determination of flashpoint of cutback bitumen
3568	Oils for reducing the viscosity of residual bitumen for pavements

3 DEFINITION For the purpose of this Standard, the definition below applies.

3.1 Cutback bitumen—a product made from residual bitumen complying with AS 2008 by the addition of cutter oil complying with AS 3568 for the temporary reduction of viscosity.

4 CLASSIFICATION AND GRADING Cutback bitumen shall be classified and graded according to its dynamic viscosity at 60°C (see Table 1). The grade shall be designated and classified as follows:

Grade designation	Classification
AMC00 AMC0 AMC1	Priming classes
AMC2 AMC3 AMC4	Primer-sealing and premix classes
AMC5 AMC6 AMC7	Sealing classes