AS 2008:2026

Australian STANDARD®

STANDARDS Australia

Bitumen for pavements



AS 2008:2026

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The following are represented on Committee CH-025:

- Australian Airports Association
- Australian Chamber of Commerce and Industry
- Australian Flexible Pavement Association
- Australian Institute of Petroleum
- Austroads
- AustStab
- Civil Contractors New Zealand
- Department of Transport and Planning (VIC)
- Engineers Australia
- National Association of Testing Authorities Australia
- National Transport Research Organization

Additional Interests:

- Civil Contractors New Zealand
- Waka Kotahi NZ Transport Agency

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Australian Standard®

Bitumen for pavements

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How to read this Standard

This page explains the meaning of the language and structure of this Standard.

Refer to Standards Australia's Standardisation Guide 006 for more details about drafting rules.

Australian and Australian/New Zealand Standards are voluntary unless they are referenced in legislation or called up in contracts.

Requirements

To conform to a Standard, all requirements in the Standard need to be met.

A requirement is any statement in the Standard which uses the word "shall".

Recommendations, permissions and possibilities

The following words are commonly used in Standards, but statements using them do not have to be followed to conform to the Standard:

(a) "should" means that something is recommended.

(b) "may" means that something is permitted.

(c) "can" means that something is possible.

Structure of Standards

A Standard always has the following parts:

(i) The Preface states who developed the Standard, what the Standard is aiming to do, and how it relates to other documents.

(ii) The Scope states what the Standard is about, what it covers and what it does not cover.

(iii) The Normative references clause lists other documents that are referenced in the Standard as part of requirements.

(iv) The Terms and definitions clause defines important terms to help with understanding the Standard.

A Standard may also include other parts, such as the following:

(1) A normative appendix sets additional requirements that need to be conformed to.

(2) An informative appendix provides additional information or guidance. They usually do not contain requirements. If an informative appendix does contain requirements, the Standard will explain when those requirements apply.

(3) A Bibliography lists documents referenced in the Standard but not as part of requirements.

Many Standards include notes. Notes provide recommendations and/or guidance only. They never contain requirements.

Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CH-025, Bitumen and Related Products (for Roadmaking), to supersede AS 2008:2013, *Bitumen for pavements.*

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this document as an Australian Standard rather than an Australian/New Zealand Standard.

This document specifies requirements for bitumen intended for use in the construction and maintenance of pavements.

This document is one of a series relating to material for roadmaking purposes. Other Standards in the series are as follows:

AS 1160, *Bituminous emulsions for pavements*

AS 2157, *Cutback bitumen*

AS 3568, *Oils for reducing the viscosity of bituminous binders for pavements*

The main changes in this edition of the document are the following:

(a) Inclusion of two new bitumen grades (15/25 and 10/20).

(b) Addition of information about sample preparation methods used prior to testing.

These modifications predominantly reflect changes in the types of bitumen grades used for roadmaking purposes in Australia.

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Australian Standard®

Bitumen for pavements

1 Scope and general

1.1 Scope

This document specifies requirements for bitumen intended for use in the construction and maintenance of pavements.

WARNING: THE USE OF THIS AUSTRALIAN STANDARD MAY INVOLVE HAZARDOUS MATERIALS, OPERATIONS AND EQUIPMENT. THIS DOCUMENT DOES NOT PURPORT TO ADDRESS ALL OF THE SAFETY PROBLEMS ASSOCIATED WITH ITS USE. IT IS THE RESPONSIBILITY OF THE USER OF THIS DOCUMENT TO ESTABLISH APPROPRIATE SAFETY AND HEALTH PRACTICES AND DETERMINE THE APPLICABILITY OF REGULATORY LIMITATIONS PRIOR TO USE.

1.2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

NOTE Documents referenced for informative purposes are listed in the Bibliography.

AS 2341.4, *Methods of testing bitumen and related roadmaking products, Method 4: Determination of dynamic viscosity by rotational viscometer*

AS 2341.7, *Methods of testing bitumen and related roadmaking products, Method 7: Determination of density using a density bottle*

AS 2341.12, *Methods of testing bitumen and related roadmaking products, Method 12: Determination of penetration*

AS 2341.14, *Methods of testing bitumen and related roadmaking products, Method 14: Determination of flashpoint of bitumen*

AS 2341.18, *Methods of testing bitumen and related roadmaking products, Method 18: Determination of softening point (ring and ball method)*

AS/NZS 2341.2, *Methods of testing bitumen and related roadmaking products, Method 2: Determination of dynamic viscosity by vacuum capillary viscometer*

AS/NZS 2341.5, *Methods of testing bitumen and related roadmaking products, Method 5: Determination of apparent viscosity by 'Shell' sliding plate micro-viscometer*

AS/NZS 2341.8, *Methods of testing bitumen and related roadmaking products, Method 8: Determination of matter insoluble in toluene*

AS/NZS 2341.10, *Methods of testing bitumen and related roadmaking products, Method 10: Determination of the effect of heat and air on a moving film of bitumen (rolling thin film oven (RTFO) test)*

AS/NZS 2341.13, *Methods of testing bitumen and related roadmaking products, Method 13: Long-term exposure to heat and air*

AS/NZS 2341.20, *Methods of testing bitumen and related roadmaking products, Method 20: Determination of sieve residue for bituminous materials*

AS/NZS 2341.21, *Methods of testing bitumen and related roadmaking products, Method 21: Sample preparation*

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