



Methods of testing bitumen and related roadmaking products

Method 12: Determination of penetration



AS 2341.12:2020

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- Australian Airports Association
- Australian Asphalt Pavement Association
- Australian Chamber of Commerce and Industry
- Australian Institute of Petroleum
- Australian Road Research Board
- Austrroads
- National Association of Testing Authorities Australia

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Preface

This Test Method was prepared by the Australian members of Joint Standards Australia/Standards New Zealand Committee CH-025, Bitumen and Related Products (for Roadmaking), to supersede AS 2341.12—1993.

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

The objective of this Test Method is to specify procedures for the determination of the penetration of bitumen and related roadmaking products. It is applicable to bituminous materials with penetrations less than or equal to 200 (0.1 mm).

This Test Method references ASTM D5/D5M-19, *Standard Test Method for Penetration of Bituminous Materials*, for use in Australia, subject to modifications set out in [Appendix A](#).

[Appendix A](#) lists the variations to ASTM D5/D5M-19, for the application of this Test Method in Australia.

Users of this Test Method are advised that they must purchase ASTM D5/D5M-19 in addition to this Test Method.

The terms “normative” or “mandatory information” and “informative” or “nonmandatory information” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or “mandatory information” annex is an integral part of a Standard, whereas an “informative” or “nonmandatory information” appendix is only for information and guidance.

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NOTES

Australian Standard®

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1 Scope

The objective of this Test Method is to specify the procedures for the determination of the penetration of bitumen and related roadmaking products. It is applicable to bituminous materials with penetrations less than or equal to 200 (0.1 mm).

2 Application

ASTM D5/D5M-19 is the 2019 edition. Only the 2019 edition shall be used in accordance with this Test Method.

3 Normative references

The following normative documents are referred to in this Standard in addition to those referenced in ASTM D5/D5M-19. The following documents are referred to in the text in such a way that some or all of the content constitutes requirements of this Standard.

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

AGPT-T102, *Protocol for Handling Modified Binders in Preparation for Laboratory Testing*

4 Terms and definitions

For the purpose of this document the terms and definitions in this Test Method and ASTM D5/D5M-19 apply.

4.1

may

indicates the existence of an option

4.2

shall

indicates that a statement is mandatory

4.3

should

indicates a recommendation

5 Operation

The requirements of ASTM D5/D5M-19 shall apply subject to the modifications set out in [Appendix A](#) for Australian conditions.