

Australian/New Zealand Standard™

**Methods of testing bitumen and related
roadmaking products**

**Part 0: General introduction and list of
Standards**

AS/NZS 2341.0:2002

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee CH-025, Bitumen and Related Products for Roadmaking. It was approved on behalf of the Council of Standards Australia on 23 May 2002 and on behalf of the Council of Standards New Zealand on 6 June 2002. It was published on 24 June 2002.

The following are represented on Committee CH-025:

ARRB Transport Research
Australian Asphalt Pavement Association
Australian Chamber of Commerce and Industry
AUSTROADS
National Association of Testing Authorities
New Zealand Bitumen Contractors Association
Opus International Consultants New Zealand

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Australia web site at www.standards.com.au or Standards New Zealand web site at www.standards.co.nz and looking up the relevant Standard in the on-line catalogue.

Alternatively, both organizations publish an annual printed Catalogue with full details of all current Standards. For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia International or Standards New Zealand at the address shown on the back cover.

Australian/New Zealand Standard™

**Methods of testing bitumen and related
roadmaking products**

**Part 0: General introduction and list of
Standards**

Originated as AS/NZS 2341.0:1994.
Second edition 2002.

COPYRIGHT

© Standards Australia/Standards New Zealand

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Jointly published by Standards Australia International Ltd, GPO Box 5420, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 4554 7

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard

Methods of testing bitumen and related roadmaking products

Part 0: General introduction and list of Standards

GENERAL INTRODUCTION

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CH-025 Bitumen and Related Products for Roadmaking, as part of an overall program of revision and updating of the following series of products Standards related to bitumen:

AS

1160 Bitumen emulsions for the construction and maintenance of pavements

2008 Residual bitumen for pavements

2150 Hot mix asphalt

2157 Cutback bitumen

In the preparation of this series, reference was made to relevant Australian (AS) Joint Australian/New Zealand (AS/NZS), British (BSI and IP) and American (ASTM) Standards.

The methods are primarily intended for the servicing of relevant Standards for bitumen and related roadmaking products, but may also find application in investigational field work.

When stipulated in a Standard, the methods form part of that Standard but may be subject to any qualifications or modifications so specified.

LIST OF STANDARDS

No.	Title	
AS/NZS 2341.1	Part 1:	Precision data—Definitions
AS 2341.2	Method 2:	Determination of dynamic (coefficient of shear) viscosity by flow through a capillary tube
AS 2341.3	Method 3:	Determination of kinematic viscosity by flow through a capillary tube
AS 2341.4	Method 4:	Determination of dynamic viscosity by rotational viscometer
AS/NZS 2341.5	Method 5:	Determination of apparent viscosity by ‘Shell’ sliding plate micro-viscometer
AS 2341.6	Method 6:	Determination of density using a hydrometer
AS 2341.7	Method 7:	Determination of density using a density bottle
AS 2341.8	Method 8:	Determination of matter insoluble in toluene
AS 2341.9	Method 9:	Determination of water content (Dean and Stark)
AS/NZS 2341.10	Method 10:	Determination of the effect of heat and air on a moving film of bitumen (rolling thin film oven (RTFO) test)
AS 2341.11	Method 11:	Determination of ductility
AS 2341.12	Method 12:	Determination of penetration
AS/NZS 2341.13	Method 13:	Long-term exposure to heat and air
AS 2341.14	Method 14:	Determination of flashpoint of residual bitumen
AS 2341.15	Method 15:	Distillation of cutback bitumen
AS 2341.16	Method 16:	Determination of flashpoint of cutback bitumen
AS 2341.17	Method 17:	Determination of distillation properties of tar
AS 2341.18	Method 18:	Determination of softening point (ring and ball method)
AS 2341.19	Method 19:	Determination of matter insoluble in quinoline for tar
AS/NZS 2341.20	Method 20:	Determination of sieve residue for bituminous materials
AS/NZS 2341.21	Method 21:	Sample preparation
AS/NZS 2341.22	Method 22:	Determination of particle charge
AS/NZS 2341.23	Method 23:	Determination of residue from evaporation
AS/NZS 2341.24	Method 24:	Calculation of non-aqueous volatiles content (by difference)
AS 2341.25	Method 25:	Determination of consistency
AS/NZS 2341.26	Method 26:	Determination of sieve residue
AS/NZS 2341.27*	Method 27:	Determination of sedimentation
AS 2341.28	Method 28:	Determination of stone coating ability and water resistance
AS 2341.29	Method 29:	Determination of breaking behaviour by setting time
AS/NZS 2341.30	Method 30:	Recovery of residue from bituminous emulsion
AS 2341.31	Method 31:	Measurement of water content of emulsions by automated Karl Fischer titration
AS 2341.32*	Method 32:	Determination of pH of bituminous emulsions

*These test methods are in the process of being reviewed to include precision information.

NOTES

Standards Australia

Standards Australia is an independent company, limited by guarantee, which prepares and publishes most of the voluntary technical and commercial standards used in Australia. These standards are developed through an open process of consultation and consensus, in which all interested parties are invited to participate. Through a Memorandum of Understanding with the Commonwealth government, Standards Australia is recognized as Australia's peak national standards body.

Standards New Zealand

The first national Standards organization was created in New Zealand in 1932. The Standards Council of New Zealand is the national authority responsible for the production of Standards. Standards New Zealand is the trading arm of the Standards Council established under the Standards Act 1988.

Australian/New Zealand Standards

Under an Active Co-operation Agreement between Standards Australia and Standards New Zealand, Australian/New Zealand Standards are prepared by committees of experts from industry, governments, consumers and other sectors. The requirements or recommendations contained in published Standards are a consensus of the views of representative interests and also take account of comments received from other sources. They reflect the latest scientific and industry experience. Australian/New Zealand Standards are kept under continuous review after publication and are updated regularly to take account of changing technology.

International Involvement

Standards Australia and Standards New Zealand are responsible for ensuring that the Australian and New Zealand viewpoints are considered in the formulation of international Standards and that the latest international experience is incorporated in national and Joint Standards. This role is vital in assisting local industry to compete in international markets. Both organizations are the national members of ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission).

Visit our Web sites

www.standards.com.au

www.standards.co.nz



Standards Australia

GPO Box 5420 Sydney NSW 2001

Administration

Phone (02) 8206 6000

Fax (02) 8206 6001

Email mail@standards.com.au

Customer Service

Phone 1300 65 46 46

Fax 1300 65 49 49

Email sales@standards.com.au

Internet www.standards.com.au



STANDARDS

NEW ZEALAND

Paeewa Aotearoa

Level 10 Radio New Zealand House

155 The Terrace Wellington 6001

(Private Bag 2439 Wellington 6020)

Phone (04) 498 5990

Fax (04) 498 5994

Customer Services (04) 498 5991

Information Service (04) 498 5992

Email snz@standards.co.nz

Internet www.standards.co.nz

This page has been left intentionally blank.