

# Australian/New Zealand Standard™

AS/NZS 2341.4:2015

## Methods of testing bitumen and related roadmaking products

### Method 4: Determination of dynamic viscosity by rotational viscometer

#### 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 2341.4—1994.

This Standard has been revised to remove obsolete instruments to reflect the use of modern technology by industry. The explanation of the technical basis for manual calculations has been removed.

#### METHOD

##### 1 SCOPE

This Standard sets out procedures for the determination of viscosity of bituminous materials at a particular shear rate, using a rotational viscometer with standard concentric cylinder measuring geometry. This method is applicable to viscosity measurements on bitumen, cutback bitumen, bituminous emulsions and polymer modified binders (PMBs).

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

##### 2 REFERENCED AND RELATED DOCUMENTS

###### 2.1 Referenced documents

The following documents are referred to in this Standard:

AS

2008 Bitumen for pavements

AS/NZS

2341 Methods of testing bitumen and related roadmaking products

2341.1 Part 1: Precision data—Definitions

2341.21 Part 21: Sample preparation

Austrroads

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

AGPT-T190 Specification Framework for Polymer Modified Binders