

AS 2341.30:2021



STANDARDS
Australia



Methods of testing bitumen and related roadmaking products

Method 30: Recovery of residue from bituminous emulsion



AS 2341.30:2021

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- Australian Airports Association
- Australian Chamber of Commerce and Industry
- Australian Flexible Pavement Association
- Australian Institute of Petroleum
- Australian Road Research Board
- Austrroads
- AustStab
- Department of Transport, Vic
- Engineers Australia
- National Association of Testing Authorities Australia

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Method 30: Recovery of residue from bituminous emulsion

Originated as part of AS 1160–1981.
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Revised and redesignated as AS 2341.30:2021.

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Preface

This Standard 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/NZS 2341.30:1996.

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.

The objective of this Standard is to specify procedures for the recovery of residue from a bituminous emulsion so that the residue can be subjected to further tests. A list of all parts in the AS (AS/NZS) 2341 series can be found in the Standards Australia online catalogue.

The major changes in this edition are as follows:

- (a) The apparatus has been updated to reflect current industry standard apparatus and practise.
- (b) The stirring thermometer previously used in the test has been replaced by a digital infrared thermometer.
- (c) The calculation of a residue from evaporation result for the bituminous emulsion sample is now optional.

Contents

Preface	ii
1 Introduction	1
2 Scope	1
3 Normative references	1
4 Terms and definitions	1
5 Reagent	2
6 Apparatus	2
7 Procedure	2
8 Calculation of residue from evaporation (if required)	3
9 Report	3
10 Precision	4

NOTES

Australian Standard®

Methods of testing bitumen and related roadmaking products

Method 30: Recovery of residue from bituminous emulsion

1 Introduction

The water phase of a bituminous emulsion is evaporated from a weighed sample on a hotplate to recover the binder phase for further testing. The test is carried out under an inert atmosphere to minimize binder hardening during evaporation.

This method is applicable to bituminous emulsions used in the construction and maintenance of pavements (as specified in AS 1160).

This method may also be used to determine the residue from evaporation of a bituminous emulsion, if specified.

2 Scope

This document sets out a procedure for the recovery of the residue from a bituminous emulsion for further testing. It also provides a means by which the residue from evaporation of a bituminous emulsion can be determined.

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

3 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 1160, *Bituminous emulsions for the construction and maintenance of pavements*

AS/NZS 2341.1, *Methods of testing bitumen and related roadmaking products, Part 1: Precision data — Definitions*

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

4 Terms and definitions

For the purpose of this document, the terms and definitions in AS/NZS 2341.1 and the following apply.

4.1

may

indicates the existence of an option

4.2

shall

indicates that a statement is mandatory