

Australian Standard[®]

Methods of testing bitumen and related roadmaking products

Method 15: Distillation of cutback bitumen

PREFACE

This Standard was prepared by the Standards Australia Committee CH/25 on Bitumen and Related Products for Roadmaking to supersede AS 2341.15—1980.

METHOD

1 SCOPE This Standard sets out a procedure that provides a means for separating the bitumen component from the more volatile constituents in cutback bitumen and quantitatively determining those constituents.

NOTES:

- 1 The residue from distillation may need to be retained for measurement of dynamic viscosity at 60°C, apparent viscosity at 25°C and matter insoluble in toluene, and for rolling thin-film oven (RTFO) treatment followed by measurement of ductility at 15°C.
- 2 The results of the physical examination of the residue after distillation are not necessarily characteristic of the original bitumen component nor of the residue which may be left at any particular time after the cutback bitumen has been applied.

2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS

- | | |
|--------|--|
| 2341 | Methods of testing bitumen and related roadmaking products |
| 2341.1 | Part 1: Precision data—Definitions |

BS

- | | |
|-----|--|
| 658 | Specification for apparatus for the determination of distillation range (including flasks and receivers) |
|-----|--|

IP

- | | |
|--|--|
| | Methods for analysis and testing, Part 1, Vol. 2, Appendix A |
|--|--|

IP 27

- | | |
|--|---|
| | Distillation of cutback asphaltic (bituminous) products |
|--|---|

3 PRINCIPLE The sample is distilled without rectification at a specified rate to a temperature of 360°C, the volume distilling at various temperatures being noted. The residue from the distillation is retained and tested as required.

4 APPARATUS The following items of apparatus are required:

- (a) *Distillation flask* A side-neck glass distillation flask having the dimensions shown in Figure 1.