



# BITUMEN CONTENT AND PARTICLE SIZE DISTRIBUTION OF ASPHALT: IGNITION OVEN METHOD

## 1 SCOPE

This method describes the procedure for determining the bitumen content and particle size distribution of hot mixed asphalt by the ignition oven method.

## 2 SAFETY

This method does not attempt to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this method to establish appropriate occupational health and safety practices that meet statutory regulations.

## 3 REFERENCED METHODS

The following documents are referenced in this test method:

### Austroads Standards

AG:PT/T234 Asphalt Binder Content (Ignition Oven Method)

### Main Roads Western Australia

WA 210.1 Particle Size Distribution of Aggregate

WA 701.1 Sampling and Storage of Asphalt

WA 705.1 Preparation of Asphalt for Testing

## 4 APPARATUS

(a) Undertake the requirements of AG:PT/T234 with the following amendments:

- 1) Section 3b of AG:PT/T234 APPARATUS to utilise a Balance of at least 3.5 kg capacity readable to at least 0.01 g with a limit of performance (F) of not more than 0.05 g.

## 5 SAMPLE PREPARATION

- (a) Undertake the requirements of AG:PT/T234 with the following amendments:
- 1) Section 5 of AG:PT/T234 SAMPLE PREPARATION to be undertaken to WA 701.1 and prepared as per WA 705.1
  - 2) Section 5d. of AG:PT/T234 SAMPLE PREPARATION not required on hot mix asphalt

## 6 BINDER CONTENT DETERMINATION

- (a) Undertake the requirements of AG:PT/T234 with the following amendments:
- 1) Section 6a. of AG:PT/T234 BINDER CONTENT DETERMINATION not required on hot mix asphalt

## 7 PARTICLE SIZE DISTRIBUTION

- (a) Undertake the requirements of AG:PT/T234 with the following amendments:
- 1) Section 7 of AG:PT/T234 PARTICLE SIZE DISTRIBUTION to be undertaken to WA 210.1

## 8 REPORTING

- 1) Report the corrected binder content to the nearest 0.1%.
- 2) When required the crumb rubber binder content f factor and corrected binder content to the nearest 0.1%.
- 3) Adjustment factors and reference Test Report to AG:PT/T234 Appendix A
- 4) Appropriate asphalt mix identification.
- 5) The particle size distribution in accordance with the requirements of WA 210.1.
- 6) The corrected particle size distribution.

## 7) ISSUING AUTHORITY

<b>Document Owner</b> Bituminous Products Consultant
---

## 8) REVISION STATUS RECORD

Page No.	Section	Revision - Description / Reference
1	All	New Test Method
1	5	Point 3 removed
	8	Previous point 4 removed
		Point 1 and 6 include corrected