

Australian Standard™

Methods of sampling and testing asphalt

Method 8: Voids and density relationships for compacted asphalt mixes

AS 2891.8—2005

1 SCOPE

This Standard sets out the method for determining the following voids and density relationships in compacted asphalt mixes:

- (a) Percentage air voids from separately determined values of bulk density and maximum density.
- (b) Absorbed binder, effective binder, maximum theoretical density, voids in the mineral aggregate, and voids filled with binder where the proportions of component materials are known.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

- 1141 Methods for sampling and testing aggregates
- 1141.5 Method 5: Bulk density and water absorption of fine aggregate
- 1141.6.1 Method 6.1: Particle density and water absorption of coarse aggregate—Weighing-in-water method
- 1141.6.2 Method 6.2: Particle density and water absorption of coarse aggregate—Pycnometer method
- 1141.7 Method 7: Apparent particle density of filler
- 2341 Methods of testing bitumen and related roadmaking products
- 2341.6 Method 6: Determination of density using a hydrometer
- 2341.7 Method 7: Determination of density using a density bottle
- 2891 Methods of sampling and testing asphalt
- 2891.1 Method 1: Sampling of asphalt
- 2891.3.1 Method 3.1: Bitumen content and aggregate grading—Reflux method
- 2891.3.2 Method 3.2: Bitumen content and aggregate grading—Centrifugal extraction method
- 2891.3.3 Method 3.3: Bitumen content and aggregate grading—Pressure filter method
- 2891.7.1 Method 7.1: Determination of maximum density of asphalt—Water displacement method
- 2891.7.3 Method 7.3: Determination of maximum density of asphalt—Methylated spirits displacement method
- 2891.9.1 Method 9.1: Determination of bulk density of compacted asphalt—Waxing procedure
- 2891.9.2 Method 9.2: Determination of bulk density of compacted asphalt—Presaturation method
- 2891.9.3 Method 9.3: Determination of bulk density of compacted asphalt—Mensuration method