

Australian/New Zealand Standard™

AS/NZS 2891.9.2:2014

Methods of sampling and testing asphalt

Method 9.2: Determination of bulk density of compacted asphalt—Presaturation method

PREFACE

This Standard was prepared by the Joint Standards/Standards New Zealand Committee CE-006, Asphalt and Sprayed Surfacing, to supersede AS 2891.9.2—2005. It is based on VicRoads (Roads Corporation trading as ‘VicRoads’) method RC 202.02, *Bulk Density of Compacted Asphalt—Presaturation Method*.

The objective of this Standard is to determine the bulk density of compacted asphalt using a presaturation procedure.

The objective of this revision is to limit the application of this method to relatively non-absorptive asphalts and to permit vacuum drying of specimens.

The term ‘normative’ has been used in this Standard to define the application of the appendix to which it applies. A ‘normative’ appendix is an integral part of a Standard.

METHOD

1 SCOPE

This Standard sets out the method for determining the bulk density of compacted asphalt using a presaturation procedure. The test method is applicable only to dense graded asphalt having a water absorption by volume no more than 2.0% or stone mastic asphalt having a water absorption by volume no more than 1.0%, as calculated in Clause 7.1.

NOTE: Determining the density of relatively thin samples (e.g. where the asphalt thickness is less than 2.5 times the asphalt nominal size) may result in more variable or unreliable results due to the small size and the increased influence of surface voids. In particular, this is applicable to larger sized mixes with large surface voids such as nominal size 14 mm asphalt or greater and or stone mastic asphalt.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS/NZS

2891	Methods of sampling and testing asphalt
2891.1.1	Method 1.1: Sampling—Loose asphalt
2891.1.2	Method 1.2: Sampling—Coring method
2891.1.3	Method 1.3: Sampling—Asphalt from slabs
2891.2.2	Method 2.2: Sample preparation—Compaction of asphalt test specimens using a gyratory compactor
2891.5	Method 5: Compaction of asphalt by Marshall method and determination of stability and flow—Marshall procedure