

# Australian Standard™

AS 2891.9.2—2005

## Methods of sampling and testing asphalt

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

#### 1 SCOPE

This Standard sets out the method for determining the bulk density of compacted asphalt using a presaturation procedure.

NOTE: This test method should be used only with dense-graded asphalt.

#### 2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

2891 Methods of sampling and testing asphalt

2891.1 Method 1: Sampling of asphalt

2891.2.2 Method 2.2: Sample preparation—Compaction of asphalt test specimens using a gyratory compactor

2891.5 Method 5: Determination of stability and flow—Marshall procedure

#### 3 DEFINITIONS

For the purpose of this Standard, the definitions given in AS 2891.1 apply.

#### 4 APPARATUS

The following apparatus is required:

- (a) *Balance* Top pan balance of sufficient capacity, with a limit of performance not exceeding  $\pm 0.5$  g, and equipped with a means for weighting beneath the balance.
- (b) *Suspension device* Nylon loop or wire frame to suspend the asphalt sample on its side.
- (c) *Water container* Filled with water and fitted with an overflow device, and of sufficient capacity to contain the suspended asphalt sample while maintaining a constant water level.
- (d) *Suspension bridge* To support the balance and suspension device over the water container.
- (e) *Thermometer* A thermometer or other suitable temperature-measuring device covering a range of 0°C to 40°C, graduated to 1°C or less, with an uncertainty not exceeding 0.5°C.
- (f) *Timer* A suitable timing device.