

# Australian Standard®

## Methods of sampling and testing asphalt

### Method 4: Tar content and aggregate grading

**1 SCOPE** This Standard sets out the method for determining the tar content of tar mixes, and subsequently the particle size distribution of the aggregate by sieve analysis.

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

AS

1141 Methods for sampling and testing aggregates

1141.2 Method 2: Basic testing equipment

1141.11 Method 11: Particle size distribution by dry sieving

1152 Test sieves

2243 Safety in laboratories

2243.8 Part 8: Fume cupboards

2341 Methods of testing bitumen and related road-making products

2341.9 Method 9: Determination of water content (Dean and Stark)

2891 Methods of sampling and testing asphalt

2891.1 Method 1: Sampling of asphalt

2891.10 Method 10: Water and volatile oils content

Worksafe Australia Standard

Exposure standards for atmospheric contaminants in the occupational environment

**3 DEFINITIONS** For the purpose of this Standard, the definitions given in AS 2891.1 shall apply.

**4 MATERIALS** The following materials are required:

- (a) *Creosote oil*—Grade 1 creosote oil.
- (b) *Solvent*—Toluene or 1,1,1-trichloroethane, commercial grade.
- (c) *Filter paper*—250 mm diameter having a retention of 11  $\mu\text{m}$ .

**5 APPARATUS**

**5.1 Apparatus**—to hold sieves in position in the plastics beaker (5.3(b)).

**5.2 Balance**—of approximately 5 kg capacity, readable to 0.1 g with a limit of performance of not more than  $\pm 0.5$  g.

**5.3 Beakers**—complying with the following requirements:

- (i) 600 mL heat-resistant toughened glass beaker.
- (ii) Plastics beakers of not less than 3 L capacity.

**5.4 Buchner flask**—5 L capacity.

**5.5 Buchner funnel**—with a diameter of 150 mm.

**5.6 Condenser**—reflux type, with adaptor to fit the Erlenmeyer flask (5.9).

**5.7 Dish**—silicone type for sample ignition.

**5.8 Drying oven**—complying with AS 1141.2.

**5.9 Flask**—a 2 L Erlenmeyer type with stopper.

**5.10 Hotplate**—with temperature control and covered with a mat of appropriate material to diffuse the heat evenly.