

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 roadmaking 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*—a 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 µm.

5 APPARATUS

5.1 Adaptor—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 ± 0.5 g.

5.3 Beakers—complying with the following requirements:

- (a) 600 mL heat-resistant toughened glass beaker.
- (b) 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.