

Australian Standard™

Methods for sampling and testing aggregates

Method 50: Resistance to stripping of cover aggregates from binders

1 SCOPE This Standard sets out the method for the preparation, curing and assessment of resistance to stripping of cover aggregates from bituminous binders in the presence of water.

This method may be used for various combinations of aggregate and binders with or without the use of precoated materials or adhesion agents.

The assessment is based on visual inspection of the particles after their removal from a binder which is cured on metal plates under standard conditions.

It is not applicable to aggregate particles greater than 20 mm or less than 9.5 mm.

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

AS

1141 Methods for sampling and testing aggregates

1141.1 Method 1: Definitions

1141.2 Method 2: Basic testing equipment

2008 Residual bitumen for pavement

3 DEFINITIONS For the purpose of this Standard the definitions in AS 1141.1 apply.

4 APPARATUS The following apparatus, complying with the relevant provisions of AS 1141.2, is required:

- (a) *Balance*—a balance of at least 2 kg capacity, with a limit of performance not exceeding ± 5 g. A second balance may be necessary with a limit of performance not exceeding ± 0.05 g.
- (b) *Containers*—of at least 500 ml capacity, with double-tight, friction top lids.
- (c) *Glassware and thermometers*—as required.
- (d) *Heat-resistant gloves and tongs*
- (e) *Hotplate*—electric, with adjustable temperature control.
- (f) *Oven(s)*—thermostatically controlled oven(s) with good air circulation, capable of maintaining a temperature within the ranges—
 - (i) 57°C to 63°C; and
 - (ii) 105°C to 110°C;

Additional ovens may be required, capable of maintaining a temperature within the ranges—

- (A) 150°C to 170°C; and