
Methods of sampling and testing asphalt

Method 11: Degree of particle coating

1 SCOPE

This Standard sets out the method for determining the degree of particle coating of asphalt of nominal size 7 mm or greater, based on the percentage of coarse aggregate particles that are completely coated with binder.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1152 Specification for test sieves

2891 Methods of sampling and testing asphalt

2891.1 Method 1: Sampling of asphalt

3 DEFINITIONS

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

4 APPARATUS

The following apparatus is required:

- (a) *Sieves* 9.50 mm and 4.75 mm, in accordance with AS 1152.
- (b) *Sampling scoop* In accordance with AS 2891.1.
- (c) *Trays* Of suitable size for sorting aggregate.
- (d) *Forceps* Of suitable size for examining aggregate.

5 SAMPLE PREPARATION

A sample of hot asphalt shall be obtained from the truck, in accordance with AS 2891.1, but shall not be coned and quartered. The sample shall be large enough to yield a minimum of 200 particles retained on the 4.75 mm or 9.50 mm sieve as appropriate. The 4.75 mm sieve shall be used for asphalt mixes of 10 mm nominal size or less and the 9.50 mm sieve shall be used for asphalt mixes of nominal size larger than 10 mm.

6 PROCEDURE

The procedure shall be as follows:

- (a) Sieve the sample while it is still hot over the 9.50 mm or 4.75 mm sieve, taking care not to overload the sieve. If necessary, sieve the sample several times to obtain the required number of particles.

NOTE: Shaking the material on the sieve should be reduced to a minimum to prevent coating of previously uncoated particles.