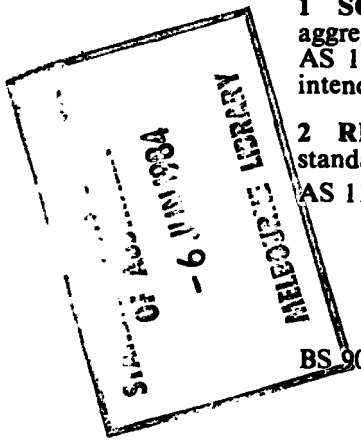


STANDARDS ASSOCIATION OF AUSTRALIA

**Australian Standard
METHODS FOR SAMPLING AND TESTING AGGREGATES**

**AS 1141.42
PENDULUM FRICTION TEST (PAFV)**



1 SCOPE. This standard sets out the method for determination of the polished aggregate friction value of test specimens prepared in accordance with AS 1141.40 or AS 1141.41 from naturally occurring or artificially produced materials which are intended for use as a pavement surfacing material.

2 REFERENCED DOCUMENTS. The following standards are referred to in this standard:

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| AS 1141 | Methods for Sampling and Testing Aggregates
1141, Sect. 2 Equipment* |
| 1141.40 | Laboratory Polishing of Aggregate Using the Vertical Road-wheel Machine |
| 1141.41 | Laboratory Polishing of Aggregate Using the Horizontal Bed Machine |
| BS 903 | Method of Testing Vulcanized Rubber
Part A8 Determination of Rebound Resilience
Part A26 Determination of Hardness |

3 DEFINITIONS. For the purpose of this standard, the following definitions apply:

3.1 Polished aggregate friction value (PAFV)—the friction value obtained at a temperature of 23°C, from friction testing of the polished material in accordance with this standard using specimens prepared in accordance with AS 1141.40 or AS 1141.41. The PAFV is not to be used to describe other frictional measurements determined on pavements.

3.2 Test specimens—specimens incorporating aggregate prepared or obtained from a material for which PAFV is required.

3.3 Reference aggregate—aggregate from a specified source for which the polished aggregate friction value is known to be within the range 48 to 54.

The reference aggregate known as Panmure basalt is available from the Australian Road Research Board (see Appendix A of AS 1141.40 or AS 1141.41).

3.4 Reference specimens—specimens incorporating reference aggregate which are prepared in the same manner as the test specimens. Reference specimens are included in each test run and are polished and tested at the same time as the test specimens. Their main function is to indicate whether the polishing and testing procedures have been correctly carried out.

3.5 Conditioning specimens—specimens incorporating the reference aggregate which are prepared and polished in the same manner, but not necessarily at the same time, as test specimens. They are used to condition new rubber sliders for use in the friction tester. Reference specimens from a previous test run may be used provided that their PAFV is not less than 48.

3.6 Friction tester control specimens—a set of specimens (previously used) of known values within the range of PAFV from 40 to 70 (at least three specimens).

4 APPARATUS.

4.1 Pendulum friction tester. A tester and auxiliary scale constructed in accordance with details available from the Australian Road Research Board, Melbourne (see Fig. 1). All bearings and working parts of the instrument shall be enclosed as far as possible, and all materials used shall be suitably treated to prevent corrosion under wet conditions.

The tester shall be used and stored in a dust-free environment and one which is not subject to a large temperature variation.

*In course of revision (to be retitled AS 1141.2, Basic Testing Equipment).