Australian Standard®



# Methods for sampling and testing aggregates
# Method 42: Pendulum friction test

## 1 SCOPE

This Standard sets out the method for determining the friction value of a surface using the pendulum friction tester on test specimens prepared from naturally occurring or artificially produced materials which are intended for use as roadway pavement surfacing material.

NOTE: The apparatus and procedure in this Standard may be used to evaluate aggregate specimens prepared on the vertical road-wheel machine (refer to AS 1141.40) and the horizontal bed machine (refer to AS 1141.41).

## 2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1141 Methods for sampling and testing aggregates

1141.40 Method 40: Polished aggregate friction value—Vertical road-wheel machine

1141.41 Method 41: Polished aggregate friction value—Horizontal bed machine

ISO

48 Rubber, vulcanized or thermoplastic—Determination of hardness (hardness between 10 IRHD and 100 IRHD)

4662 Rubber, vulcanized or thermoplastic—Determination of rebound resilience

## 3 DEFINITIONS

For the purpose of this Standard the definitions below apply.

### 3.1 Conditioning specimen

A reference specimen with a friction value in the range 48 to 54. It is used to condition new rubber sliders for use in the friction tester.

NOTES:

1 Panmure reference specimens from a previous test run may be used.

2 Panmure aggregate will meet the requirements of this definition.

### 3.2 Friction tester control specimens

A set of previously polished and tested specimens, covering a range of friction values from 35 to 65 used to verify the results obtained from the pendulum friction tester.

### 3.3 Friction value

The value obtained when a material is tested using the pendulum friction tester corrected for temperature and for experimental errors using reference specimens.

### 3.4 Reference material

Material from a specified source for which the unpolished and polished friction values are known (refer to Appendix A of AS 1141.40 or Appendix A of AS 1141.41).