



**Transport**  
Roads & Maritime  
Services

# Test method T234

## Polishing value of aggregate by trafficking

OCTOBER 2012



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## Revision Summary

Ed/Rev Number	Clause Number	Description of Revision	Authorisation	Date
		Reformatted and Revision Summary Added	D.Dash	May 1999
		Date on Test Method Revised to Agree with Date on Revision Summary	D.Dash	Feb 2001
Ed 2/ Rev 0	All	Reformatted RMS template	J Friedrich	October 2012

Note that Roads and Maritime Services is hereafter referred to as 'RMS'.

The most recent revision to Test method T234 (other than minor editorial changes) are indicated by a vertical line in the margin as shown here.

# Test method T234

## Polishing value of aggregate by trafficking

### 1. Scope

This test method sets out the procedure for determining the polishing value of aggregate intended for bituminous surfacing by exposure to the polishing action of traffic.

### 2. Apparatus

- (a) A mould frame 150 mm square of iron strip about 3 mm thick by 25 mm wide, with four corner quadrant strips to allow for insertion of bolts.
- (b) An aluminium backing plate on which to prepare the test specimen
- (c) A mounting frame consisting of an iron base plate to which is welded iron strip, to accommodate the 150 mm square test specimen. In each corner is a bolt hole to enable the attachment of the aluminium backing plate into the base plate frame
- (d) Tools for cutting out a cavity in the road
- (e) Bituminous patching mix, portland cement and Ciment Fondu to fix and restore Preparation

### 3. Preparation of Test Specimen

Preparation of the specimens is carried out as described in Test Method T233 except that square specimens are produced with quadrant shaped corners to allow for the location of bolts for securing the aluminium backing plate to the mounting frame when inserting the specimen in the road pavement.

### 4. Insertion of Test Specimen In The Road Pavement

- (a) Select the site for insertion of specimens
- (b) Prepare a mortar of 3 parts portland cement, 1 part Ciment Fondu, 6 parts fine sand and enough water to ensure that the mixture will pour readily.
- (c) Bolt the specimen in the mounting frame by attaching the backing plate to the base of the mounting frame and tightening the bolts. Paint an arrow on the base of the mounting frame and backing plate to indicate the direction of traffic.
- (d) Pour the mixture prepared in Insertion of Test Specimen in the Road Pavement above, into the hole and set the specimen in the mounting frame in the cavity so that the surface of the specimen is flush with the surface of the road pavement. Allow the mixture to set.
- (e) Restore the road surface surrounding the specimen with bituminous mixture or cement mortar.

### 5. Testing and Reporting

Determine the frictional resistance according to Test Method T231 and record as a function of time. Record the lowest value of coefficient of friction as the "Polishing Value (by Trafficking)". Record the site and traffic conditions.