



Transport
Roads & Maritime
Services

Test method T215

Wet/dry strength variation

OCTOBER 2012



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
		Formulas (missing) added to Procedure - Section 6.2(e) and (f), Section 6.3(f)	D. Dash	Oct 2001
		Revised. Adopt AS 1141.22 with amendments. Duplicate testing retained	G Donald	Nov 2007
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 T215 (other than minor editorial changes) are indicated by a vertical line in the margin as shown here.

Test method T215

Wet/dry strength variation

1. Scope

This test method sets out the procedure to determine the dry and wet strength and the calculated variation in strength of aggregate tested in the oven dry and saturated surface dry conditions respectively.

2. General

- (a) The dry strength and the wet strength are the crushing forces that produce fines that are 10 percent by mass of the dry test portion.
- (b) The relevant material specification may require more than one fraction to be tested, otherwise refer to Table 1 in AS 1141.22 and select an appropriate fraction for testing.

3. Apparatus, Preparation, Procedure, Calculations and Reporting

This test method is identical to AS 1141.22 except for the following amendments:

- (a) To avoid overloading of sieves, the maximum mass of material to be retained on each sieve shall be according to Table A.4 in T105
- (b) Where the material includes crushed concrete, the material may be pre-treated using rotary or mechanical agitation to remove adhering mortar particles
- (c) When separating the fines from the test portion:
 - (i) Use a guard sieve or sieves with an aperture size for the lower guard sieve of approximately twice that of the separating sieve
*NOTE: When using mechanical sieving, sieve for approximately 7 minutes.
When manually sieving, continue sieving until approximately 1% by mass passes the lower guard sieve after one minute of sieving.*
 - (ii) Remove the guard sieve(s) and keep the material retained
 - (iii) Hand sieve the portion on the separating sieve. Continue until no more than 0.2% by mass passes the separating sieve after a further one minute of sieving
 - (iv) Record the mass retained as the mass retained on the guard sieve(s) plus the mass retained on the separating sieve
- (d) Duplicate testing is required and shall be noted in the report
- (e) Include reference to this test method in the report