



Transport
Roads & Maritime
Services

Test method T1202

Gradation of spherical glass beads

NOVEMBER 2012



Revision Summary

Ed/Rev Number	Clause Number	Description of Revision	Authorisation	Date
		Reformatted and Revision Summary Added	D.Dash	June 2001
Ed 2/ Rev 0	All	Reformatted RMS template	J Friedrich	November 2012

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

The most recent revision to Test method T1202 (other than minor editorial changes) are indicated by a vertical line in the margin as shown here.

Test method T1202

Gradation of spherical glass beads

1. Scope

This test method sets out the procedure of the determining of the gradation of spherical glass beads. The procedure is identical to the Australian Standard E42-1967, (Appendix A).

2. Apparatus

- (a) A balance of not less than 200 g capacity, accurate and readable to 0.05 g.
- (b) 850, 600, 425, 300, 150 and 75 μm AS 1152-1973 sieves, having 200 mm diameter frames.
- (c) A sample divider (riffle box) of appropriate size openings.
- (d) A thermostatically controlled oven with good air circulation, capable of maintaining a temperature within the range of 105°C to 110°C.
- (e) A mechanical sieve shaker.

3. Procedure

- (a) Clean and dry all sieves thoroughly before assembly.
- (b) Select by riffle splitting a sample of about 50 g of beads from the parent sample and dry it substantially to constant weight at 105°C to 110°C.
- (c) Weigh the sample to the nearest 0.1 g and place on the sieve at the top of the nest.
- (d) Shake the sample in a mechanical sieve shaker for 20 minutes.
- (e) Record the weight of beads retained on each sieve.
- (f) Calculate to the nearest whole number the percentage by weight of the sample passing each sieve.

4. Reporting

Report the proportion of beads passing each sieve as a cumulative percentage of the total weight of beads recovered from all sieves and the pan.

Report the loss of beads as a percentage of the original sample weight taken after drying.