Australian Standard®

Methods for sampling and testing aggregates

Method 25.1: Degradation factor—Source rock

1 SCOPE This Standard sets out the method for the determination of the degradation factor of rock spalls and drill cores. The test categorizes the fines produced by self-abrasion in the presence of water.

NOTE: This test is based on Washington State Highways Department (WSHD) Test Method No. 1134, Method of Test for Determination of Degradation Value. Most of the experience with this test has been with basic igneous rocks and it may be applied to other igneous, metamorphic and sedimentary rock.

2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS	
1141	Methods for sampling and testing aggregates
1141.1	Method 1: Definitions
1141.2	Method 2: Basic testing equipment
1152	Specification for test sieves
1289	Methods of testing soils for engineering purposes
1289.3.7.1	Method 3.7.1: Soil classification tests—Determination of the sand equivalent of a soil using a power operated shaker

3 DEFINITIONS For the purpose of this Standard the definitions in AS 1141.1 apply.

4 APPARATUS The following apparatus, complying with the requirements of AS 1141.2, is required:

(a) *Balance*—of sufficient capacity, with a limit of performance not exceeding ±5g.

(b) *Baskets*—woven wire mesh washing baskets—four required, with mesh opening between 1 mm and 2 mm.

(c) *Brushes*—sieve-cleaning brushes.

(d) *Canister*—plastic, approximately 190 mm diameter by 152 mm high, with tightly fitting lid.

(e) *Crusher*—or other suitable equipment, for reducing the spalls or drill cores, or both, to the required size.

(f) *Scalping screen*—or other suitable equipment, with aperture size 12 mm minimum to 19 mm maximum (see Clause 6(c)).

(g) *Measuring cylinders*—two, of—

(i) 500 mL capacity, graduated at 100 mL intervals, with rubber or plastic stopper; and

(ii) 10 mL capacity, graduated at 1 mL intervals.

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