DIN EN 933-1:2012-03 (E)

Tests for geometrical properties of aggregates - Part 1: Determination of particle size distribution - Sieving method

Contents

Page

Foreword 3

1 Scope 4

2 Normative references 4

3 Terms and definitions 4

4 Principle 5

5 Apparatus 5

6 Preparation of test portions 5

7 Procedure 6
7.1 Washing 6
7.2 Sieving 7
7.3 Weighing 8

8 Calculation and expression of results 8
8.1 Calculations 8
8.2 Validating the results 8
8.3 Precision 9

9 Test report 9
9.1 Required data 9
9.2 Optional data 9

Annex A (normative) Alternative test method for all-in aggregate with D 31,5 mm 11

A.1 Principle 11
A.2 Apparatus 11
A.3 Procedure 11
A.3.1 Preparation of the initial test portion 11
A.3.2 First washing stage - particles retained on the 16 mm size test sieve 12
A.3.3 First dry sieving stage - particles retained on the 16 mm size test sieve 12
A.3.4 Preparation stage - dry subsample passing the 16 mm size test sieve 12
A.3.5 Second washing stage - reduced subsample passing the 16 mm size test sieve 12
A.3.6 Second dry sieving stage - reduced subsample passing the 16 mm size test sieve 12
A.4 Calculation and expression of results 13
A.4.1 Original dry mass 13
A.4.2 Mass retained on the sieves at the first dry sieving stage 13
A.4.3 Mass retained on the sieves at the second dry sieving stage 13
A.4.4 Mass of fines passing the 0,063 mm sieve 13
A.4.5 Particle size distribution 14
A.4.6 Validating the results 14

Annex B (normative) Test method for aggregates unsuitable for oven-drying 15

Annex C (informative) Example of test data sheet 16

Annex D (informative) Graphical presentation of results 17

Bibliography 18