

Tests for general properties of aggregates —

Part 2: Methods for reducing laboratory samples

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British Standard

ICS 91.100.15

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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 10, an inside back cover and a back cover.

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Prüfverfahren für allgemeine Eigenschaften von Gesteinskörnungen — Teil 2: Verfahren zum Einengen zum Laboratoriumsproben

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CEN

European Committee for Standardization
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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 154, Aggregates, the Secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 1999, and conflicting national standards shall be withdrawn at the latest by 1 December 2003.

This European Standard is one of a series of standards for tests for general properties of aggregates. Test methods for other properties of aggregates are covered by Parts of the following European Standards:

EN 933, *Tests for geometrical properties of aggregates*.
EN 1097, *Tests for mechanical and physical properties of aggregates*.
EN 1367, *Tests for thermal and weathering properties of aggregates*.
EN 1744, *Tests for chemical properties of aggregates*.
prEN 13179, *Tests for filler aggregate used in bituminous mixtures*.

The other parts of EN 932 will be:

Part 1: Methods for sampling.
Part 3: Procedure and terminology for simplified petrographic description.
Part 5: Common equipment and calibration.
Part 6: Definitions of repeatability and reproducibility.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This European Standard specifies methods for reducing laboratory samples of aggregates to test portions, when the test portion mass is:

- specified by a lower limit on the mass;
- specified by a tolerance around a target mass;
- determined precisely by the requirements of a test method.

2 Normative references

This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 932-1, *Tests for general properties of aggregates — Part 1: Methods for sampling*.

prEN 932-5, *Tests for general properties of aggregates — Part 5: Common equipment and calibration*.

3 Definitions and symbols

3.1 Definitions

For the purposes of this European Standard, the following definitions apply:

3.1.1

laboratory sample

sample intended for laboratory testing

3.1.2

subsample

sample obtained by means of a sample reduction procedure

3.1.3

test portion

subsample used as a whole in a single test

3.1.4

test specimen

sample used in a single determination when a test method requires more than one determination of a property

3.1.5

$\frac{1}{2}$ division

division of a sample into two subsamples of approximately equal mass (see Figure 1)

3.1.6

$\frac{3}{4}$ division

division of a sample into two subsamples, with masses approximately $\frac{3}{4}$ and $\frac{1}{4}$ times the mass of the original sample (see Figure 2)

3.1.7

$\frac{5}{8}$ division

division of a sample into two subsamples with masses approximately $\frac{5}{8}$ and $\frac{3}{8}$ times the mass of the original sample (see Figure 3).

3.2 Symbols

m_L laboratory sample mass (in grams or kilograms).

m_S subsample mass (in grams or kilograms).

m_T specified test portion mass (in grams or kilograms).

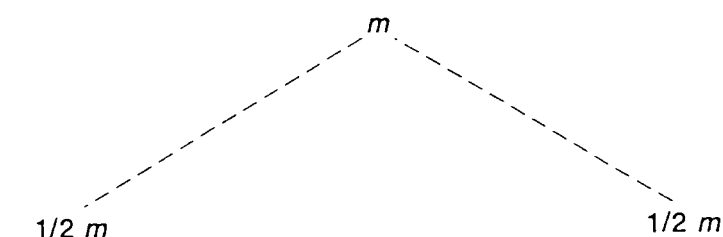
4 Principle

The procedures given in this European Standard are designed so that test portions are obtained by the minimum number of division steps, and so that, as far as possible, the operator is prevented from making small adjustments to the test portion and from choosing the particles that go into the test portion.

5 Apparatus

Apparatus shall be as specified in EN 932-1 with the addition of suitable apparatus for crushing and grinding. All apparatus shall comply with the general requirements of prEN 932-5.

NOTE In all cases, alternative designs may be used so long as the essential dimensions of width of opening and length are met, and the devices can be used to fulfil the sample reduction methods specified in clauses 7 to 13.



NOTE The dashed lines denote dividing of a sample into two subsamples.

Figure 1 — $\frac{1}{2}$ division