

Tests for general properties of aggregates —

Part 6: Definitions of repeatability and reproducibility

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The UK participation in its preparation was entrusted by Technical Committee B/502, Aggregates, to Subcommittee B/502/6, Test methods, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 11 and a back cover.

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Tests for general properties of aggregates — Part 6: Definitions of repeatability and reproducibility

Essais pour déterminer les propriétés générales des
granulats —

Partie 6: Définitions de la répétabilité et de la
reproductibilité

Prüfverfahren für allgemeine Eigenschaften von
Gesteinskörnungen —

Teil 6: Definitionen von Wiederholpräzision und
Vergleichpräzision

This European Standard was approved by CEN on 16 April 1999.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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of an identical text or by endorsement, at the latest by November 1999, and conflicting national standards shall be withdrawn at the latest by December 2003.

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.

This standard forms part of a series of tests for general properties of aggregates. Test methods for other properties of aggregates will be 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*;

EN 13179, *Tests for filler aggregate used in bituminous mixtures*.

The other parts of EN 932 will be:

Part 1: Methods for sampling;

Part 2: Methods for reducing laboratory samples;

Part 3: Procedure and terminology for simplified petrographic description;

Part 5: Common equipment and calibration.

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1 Scope

This European Standard gives definitions of repeatability and reproducibility adapted from ISO 5725-1 to the specific situation of sampling and testing aggregates.

These adjustments have been made because test portions or test specimens of aggregates are usually not identical to each other as specified in ISO 5725-1.

2 Definitions

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

2.1 sampling and sample reduction definitions

2.1.1

test portion

sample used as a whole in a single test

2.1.2

test specimen

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

2.1.3

sampling error

difference between the properties of a batch and a bulk sample that arises during the process of taking a bulk sample from the batch

2.1.4

bulk sample reduction error

difference between the properties of a bulk sample and a laboratory sample that arises during the process of reducing the bulk sample to a laboratory sample

2.1.5

laboratory sample reduction error

difference between the properties of a laboratory sample and a test portion that arises during the process of reducing the laboratory sample to a test portion

2.1.6

between-laboratory testing variation

variation that arises between test results from different laboratories because of differences between operators, apparatus, reagents, calibrations and environments

2.1.7

within-laboratory testing variation

variation that arises between test results from the same laboratory when the operator, apparatus, reagents, calibrations and environments are not changed

2.1.8

variation between single determinations

variation that arises between single determinations that are used to calculate one test result