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Täitematerjalide geomeetrliste omaduste katsetamine. Osa 10: Peenosiste hindamine. Filleri terastikuline koostis (sõelanalüüs õhujoas)

Tests for geometrical properties of aggregates - Part 10: Assessment of fines - Grading of fillers (air jet sieving)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 933-10:2001 sisaldb Euroopa standardi EN 933-10:2001 ingliskeelset teksti.	This Estonian standard EVS-EN 933-10:2001 consists of the English text of the European standard EN 933-10:2001.
Standard on kinnitatud Eesti Standardikeskuse 28.12.2001 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.	This standard is ratified with the order of Estonian Centre for Standardisation dated 28.12.2001 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.
Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kätesaadavaks tegemise kuupäev on 21.03.2001.	Date of Availability of the European standard text 21.03.2001.
Standard on kätesaadav Eesti standardiorganisatsionist.	The standard is available from Estonian standardisation organisation.

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Võtmesõnad: filler, katse, sõelanalüüs, terastikuline koostis, täitematerjalid

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English version

Tests for geometrical properties of aggregates

Part 10: Assessment of fines – Grading of fillers (air jet sieving)

Essais pour déterminer les caractéristiques géométriques des granulats – Partie 10: Détermination des fines – Granularité des fillers (tamisage dans un jet d'air)

Prüfverfahren für geometrische Eigenschaften von Gesteinskörnungen – Teil 10: Beurteilung von Feinanteilen – Kornverteilung von Füllern (Luftstrahlsiebung)

This European Standard was approved by CEN on 2001-01-18.

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

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CEN

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

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC154 "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 September 2001, and conflicting national standards shall be withdrawn at the latest by December 2003.

This standard forms part of a series of tests for geometrical properties of aggregates. Test methods for other properties of aggregates will be covered by Parts of the following European Standards:

EN 932	Tests for general 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 933 will be:

- Part 1: Determination of particle size distribution - Sieving method
- Part 2: Determination of particle size distribution - Test sieves, nominal size of apertures
- Part 3: Determination of particle shape - Flakiness index
- Part 4: Determination of particle shape - Shape index
- Part 5: Determination of percentage of crushed and broken surfaces in coarse aggregate particles
- Part 6: Assessment of surface characteristics - Flow coefficient for aggregates
- Part 7: Determination of shell content - Percentage of shells in coarse aggregates
- Part 8: Assessment of fines - Sand equivalent test
- Part 9: Assessment of fines - Methylene blue test

Annexes A, B and C are informative.

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.

1 Scope

This European Standard specifies a method using air jet sieving for the determination of the particle size distribution of fillers by mass. It applies to fillers of natural or artificial origin up to 2 mm nominal size.

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 (including amendments).

- EN 932-2 *Tests for general properties of aggregates*
 Part 2: Methods for reducing laboratory samples
- EN 932-5 *Tests for general properties of aggregates*
 Part 5: Common equipment and calibration
- EN 933-2 *Tests for geometrical properties of aggregates*
 Part 2: Determination of particle size distribution -
 Test sieves, nominal size of apertures

3 Terms and definitions

For the purposes of this standard, the following terms and definitions apply.

3.1

filler

aggregate, most of which passes a 0,063 mm sieve

3.2

laboratory sample

sample intended for laboratory testing

3.3

test portion

sample used as a whole in a single test

3.4

constant mass

successive weighings after drying at least 1 h apart not differing by more than 0,1 %

NOTE In many cases constant mass can be achieved after a test portion has been dried for a pre-determined period in a specified oven at $(110 \pm 5)^\circ\text{C}$. Test laboratories can determine the time required to achieve constant mass for specific types and sizes of sample dependent upon the drying capacity of the oven used.

4 Principle

The test consists of dividing up and separating, by means of a series of sieves, a filler into several granular classifications of decreasing sizes. The aperture sizes and the number of sieves are specified in 5.2. The test is in particular well suited for materials which when dry neither tend to agglomeration nor to electrostatic charge.