



SLOVENSKI STANDARD

SIST EN 933-2:1999

01-junij-1999

Preskusi geometričnih lastnosti agregatov - 2. del: Določevanje zrnivosti - Preskusna sita, velikosti nazivnih odprtin

Tests for geometrical properties of aggregates - Part 2: Determination of particle size distribution - Test sieves, nominal size of apertures

Prüfverfahren für geometrische Eigenschaften von Gesteinskörnungen - Teil 2:
Bestimmung der Korngrößenverteilung - Analysensiebe, Nennweite der Sieböffnungen

Essais pour déterminer les caractéristiques géométriques des granulats - Partie 2:
Détermination de la granularité - Tamis de contrôle, dimensions nominales des ouvertures

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ICS:

91.100.15 Mineralni materiali in izdelki Mineral materials and products

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EUROPEAN STANDARD

EN 933-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 1995

ICS 91.100.20

Descriptors: aggregates, tests, geometric characteristics, grain size, grain size analysis, sieve analysis, sieves, wire cloth, sieve plates, designation, dimensions, openings, ratings

English version

**Tests for geometrical properties of aggregates -
Part 2: Determination of particle size distribution -
Test sieves, nominal size of apertures**

Essais pour déterminer les caractéristiques géométriques des granulats - Partie 2: Détermination de la granularité - Tamis de contrôle, dimensions nominales des ouvertures

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This European Standard was approved by CEN on 1995-11-04. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

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

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

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Foreword

This European Standard has been prepared by the Technical Committee CEN/TC 154 "Aggregates" of which the Secretariat 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 May 1996, and conflicting national standards shall be withdrawn at the latest by May 1996.

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

prEN 932	Tests for general properties of aggregates
prEN 1097	Tests for mechanical and physical properties of aggregates
prEN 1367	Tests for thermal and weathering properties of aggregates
prEN 1744	Tests for chemical properties of aggregates

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, 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 Part of this European Standard specifies nominal aperture sizes and shape for woven wire cloth and perforated plate in test sieves used for test methods for aggregates.

It applies to aggregates of natural or artificial origin including lightweight aggregates.

2 Normative references

This European Standard incorporates by dated or by 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.

ISO 3310-1	1990	Test sieves - Technical requirements and testing - Part 1: Test sieves of metal wire cloth https://standards.iteh.ai/catalog/standards/sist/61535c35-cd22-440d-a5d6-c326f26eb785/sist-en-933-2-1999
ISO 3310-2	1990	Test sieves - Technical requirements and testing - Part 2: Test sieves of perforated metal plate
ISO 565	1990	Test sieves - Woven metal wire cloth, perforated plate and electroformed sheet - Nominal sizes of openings.

3 Definitions

For the purposes of this standard, the following definitions apply:

- 3.1 **woven wire cloth:** wires which cross each other to form the square apertures.
- 3.2 **perforated plate:** a plate with uniform square holes in symmetrical arrangement.

4 Designation

Sieves with aperture size of 4 mm and above shall be perforated plate square hole test sieves conforming to ISO 3310-2. Below 4 mm they shall be woven wire test sieves conforming to ISO 3310-1.

NOTE: Woven wire sieves of 4 mm and above may be used if a correlation can be established with results obtained using perforated plate sieves. In cases of dispute a reference test should be carried out using perforated plate sieves.

5 Nominal size of apertures

When a particle size distribution is carried out, sieves from the following series of aperture sizes between d and D of the designated product size, shall be included, in addition to any other required sieves:

0,063 mm, 0,125 mm, 0,250 mm, 0,500 mm, 1 mm, 2 mm, 4 mm, 8 mm, 16 mm,
31,5 mm, 63 mm, 125 mm

For tests where particular sieves are required these shall be selected from the R 20 series specified in ISO 565.

NOTE: The R 20 series from 0,063 mm to 125 mm increases by step ratio $10^{1/20} \approx 1,12$.

6 Shape of apertures

Only sieves with square apertures shall be used.

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