

**Täitematerjalide geomeetriliste omaduste
katsetamine. Osa 1: Terastikulise koostise
määramine. Sõelanalüüs KONSOLIDEERITUD
TEKST**

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

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 933-1:2007 sisaldab Euroopa standardi EN 933-1:1997+A1:2005 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 09.03.2000 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 20.08.1997.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 933-1:2007 consists of the English text of the European standard EN 933-1:1997+A1:2005.

This standard is ratified with the order of Estonian Centre for Standardisation dated 09.03.2000 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 20.08.1997.

The standard is available from Estonian standardisation organisation.

ICS 91.100.15

Võtmesõnad: geomeetrilised omadused, katsed, sõelanalüüs, terastikuline koostis, terasuurus, täitematerjalid, üksikkatseproovide ettevalmistamine

Standardite reprodutseerimis- ja levitamiseõigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonilisse süsteemi või edastamine ükskõik millises vormis või millisel teel on keelatud ilma Eesti Standardikeskuse poolt antud kirjaliku loata.

Kui Teil on küsimusi standardite autorikaitse kohta, palun võtke ühendust Eesti Standardikeskusega:
Aru 10 Tallinn 10317 Eesti; www.evs.ee; Telefon: 605 5050; E-post: info@evs.ee

ICS 91.100.20

Descriptors: Grading, aggregates, testing, sieve analysis.

English version

Tests for geometrical properties of aggregates

Part 1: Determination of particle size distribution – Sieving method

Essais pour déterminer les caractéristiques géométriques des granulats –
Partie 1: Détermination de la granularité – Analyse granulométrique par tamisage

Prüfverfahren für geometrische Eigenschaften von Gesteinskörnungen – Teil 1: Bestimmung der Korngrößenverteilung – Siebverfahren

This European Standard was approved by CEN on 1997-07-16.

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, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

CEN

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

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

Contents

	Page
Foreword	2
1 Scope	3
2 Normative references	3
3 Definitions	4
4 Principle	4
5 Apparatus	4
6 Preparation of test portions	5
7 Procedure	6
8 Calculation and expression of results	7
9 Test report	8
Annex A (informative) Graphical presentation of results	9
Annex B (normative) Method of test for aggregates unsuitable for oven-drying	9
Annex C (informative) Example of test data sheet	10

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 February 1998, and conflicting national standards shall be withdrawn at the latest by February 1998.

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

A European Standard "Test for filler aggregate used in bituminous mixtures" is in preparation.

The other parts of EN 933 will be:

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 crushed and broken surfaces in coarse aggregate particles
Part 6:	Determination of texture/shape - Flow coefficient of coarse aggregates
Part 7:	Determination of shell content - Percentage of shells for coarse aggregates
Part 8:	Assessment of fines - Sand equivalent test
Part 9:	Assessment of fines - Methylene blue test
Part 10:	Determination of fines - Grading of fillers (air jet sieving)

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 Part of this European Standard specifies a method, using test sieves, for the determination of the particle size distribution of aggregates. It applies to aggregates of natural or artificial origin, including lightweight aggregates, up to 63 mm nominal size, but excluding filler.

NOTE: The determination of the grading of fillers will be specified in prEN 933-10 Tests for geometrical properties of aggregates Part 10: Determination of fines - Grading of fillers.

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.

prEN 932-2	Tests for general properties of aggregates Part 2: Methods for reducing laboratory samples
prEN 932-5	Tests for general properties of aggregates Part 5: Common equipment and calibration
EN 933-2 : 1995	Tests for geometrical properties of aggregates Part 2: Determination of particle size distribution - Test sieves, nominal size of apertures
prEN 1097-6	Tests for mechanical and physical properties of aggregates Part 6: Determination of particle density and water absorption
ISO 3310-1:1990	Test sieves - Technical requirements and testing. Part 1: Test sieves of metal wire cloth
ISO 3310-2:1990	Test sieves - Technical requirements and testing. Part 2: Test sieves of perforated metal plate