

TÄITEMATERJALIDE KEEMILISTE OMADUSTE
KATSETAMINE. OSA 3: ELUAATIDE VALMISTAMINE
TÄITEMATERJALI LEOSTAMISE TEEL

Tests for chemical properties of aggregates - Part 3:
Preparation of eluates by leaching of aggregates

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 1744-3:2002 sisaldab Euroopa standardi EN 1744-3:2002 ingliskeelset teksti.	This Estonian standard EVS-EN 1744-3:2002 consists of the English text of the European standard EN 1744-3:2002.
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ICS 91.100.15

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ICS 91.100.15

English version

Tests for chemical properties of aggregates - Part 3: Preparation of eluates by leaching of aggregates

Essais pour déterminer les propriétés chimiques des granulats - Partie 3: Préparation d'éluats par lixiviation des granulats

Prüfverfahren für chemische Eigenschaften von Gesteinskörnungen - Teil 3: Herstellung von Eluaten durch Auslaugung von Gesteinskörnungen

This European Standard was approved by CEN on 5 March 2002.

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Foreword

This document EN 1744-3:2002 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of an identical text or by endorsement, at the latest by January 2003, and conflicting national standards shall be withdrawn at the latest by January 2003.

This standard forms part of a series of tests for chemical 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 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 13179	Tests for filler aggregate used in bituminous mixtures

The other parts of EN 1744 are, or will be:

- Part 1: Chemical analysis
- Part 2: Determination of resistance to alkali reaction
- Part 4: Water susceptibility of fillers for bituminous mixtures

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, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard specifies a method for the preparation of eluates, by leaching of aggregates, for subsequent investigation of physical and chemical properties by existing standard methods for the purpose of compliance testing. It applies to unbound aggregates that have a particle size below 32 mm with or without size reduction (see clause 8).

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

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.*

EN 1097-5, *Tests for mechanical and physical properties of aggregates — Part 5: Determination of the water content by drying in a ventilated oven.*

EN ISO 3696, *Water for analytical laboratory use — Specification and test methods (ISO 3696:1987).*

3 Terms and definitions

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

3.1

leachant

liquid used in a laboratory leaching procedure

3.2

eluate

solution remaining after the laboratory leaching procedure of a solid material in contact with a leachant

3.3

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 ± 5) °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.

3.4

laboratory sample

sample intended for laboratory testing

3.5

test portion

sample used as a whole in a single test