Täitematerjalide mehaaniliste ja füüsikaliste omaduste katsetamine. Osa 1: Kulumiskindluse määramine (mikro-Deval) KONSOLIDEERITUD TEKST

Tests for mechanical and physical properties of aggregates - Part 1: Determination of the resistance to wear (micro-Deval) CONSOLIDATED TEXT



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 1097-1:2007 sisaldab Euroopa standardi EN 1097-1:1996+A1:2003 ingliskeelset teksti.

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Descriptors

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aggregates, samples, tests, mechanical properties, wear tests

English version

Tests for mechanical and physical properties of aggregates - Part 1: Determination of the resistance to wear (micro-Deval)

Essais pour déterminer les caractéristiques mécaniques et physiques des granulats - Partie 1: Détermination de la résistance à l'usure (micro-Deval) Prüfverfahren für mechanische und physikalische Eigenschaften von Gesteinskörnungen - Teil 1: Bestimmung des Widerstandes gegen Verschleiß (Micro-Deval)

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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/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of an identical text or by endorsement, at the latest by January 1997, and conflicting national standards shall be withdrawn at the latest by January 1997.

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

EN 932	Tests for general properties of aggregates
EN 933	Tests for geometrical properties of aggregates
EN 1367	Tests for thermal and weathering properties of aggregates
EN 1744	Tests for chemical properties of aggregates

The other parts of EN 1097 will be.

Part 2	Methods for the determination of resistance to fragmentation
Part 3	Determination of loose bulk density and voids
Part 4	Determination of void in a dry compacted filler
Part 5	Determination of water content by drying in a ventilated oven
Part 6	Determination of particle density and water absorption
Part 7	Determination of the particle density of filler - Pyknometer method
Part 8	Determination of the polished stone value
Part 9	Method for the determination of the resistance to wear by abrasion from studded
	tyres: Nordic test
Part 10	Water suction height

According to the CEN/CENELEC Internal Regulations, the national standards organizations of 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.

1 Ѕсоре

This European Standard specifies a procedure for measuring the resistance to wear of a sample of aggregate. The sample is normally tested in a wet condition but the test may also be carried out in a dry condition. This European Standard applies to natural or artificial aggregates used in building or civil engineering.

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.

prEN 932-2 Tests for general properties of aggregates. Part 2: Methods for reducing laboratory samples to test portions prEN 932-5 Tests for general properties of aggregates Part 5: Common equipment and calibration Tests for geometrical properties of aggregates prEN 933-1:1992 Part 1: Determination of particle size distribution - Sieving method ISO 3290:1975 Rolling bearings - Bearing parts - Balls for rolling bearings ISO 4788:1980 Laboratory glassware - Graduated measuring cylinders ISO 5725:1986 Precision of test methods - Determination of repeatability and reproducibility for a standard test method by inter-laboratory tests.

3 Definitions

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

- 3.1 test portion: The sample used as a whole in a single test.
- 3.2 test specimen: When a test method requires more than one determination of a property, the test specimen is the sample used in a single determination.
- 3.3 laboratory sample: A reduced sample derived from a bulk sample for laboratory testing.
- **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 ± 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.