

საქართველოს სტანდარტი

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თბილისი

საინფორმაციო მონაცემები

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English Version

Bituminous mixtures - Test methods - Part 27: Sampling

Mélanges bitumineux - Méthodes d'essai - Partie 27:
Prélèvements d'échantillonnage

Asphalt - Prüfverfahren - Teil 27: Probenahme

This European Standard was approved by CEN on 10 April 2017.

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This European Standard exists 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 CEN-CENELEC Management Centre has the same status as the official versions.

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საინფორმაციო ნაწილი. სრული ტექსტის სახასიათო შეიქმნეო სტანდარტი.

European foreword

This document (EN 12697-27:2017) has been prepared by Technical Committee CEN/TC 227 "Road materials", the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by December 2017, and conflicting national standards shall be withdrawn at the latest by December 2017.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 12697-27:2000.

The following is a list of significant technical changes since the previous edition:

- the title no longer makes the method exclusively for hot mix asphalt;
- reduction of the individual increment sizes;
 - (4.1.2, 4.4.2): for material containing aggregate equal or smaller than 16 mm, from 3 kg to 2 kg;
 - (4.1.2, 4.4.2): for material containing aggregate larger than 16 mm, from 7 kg to 3 kg;
 - (4.3.2); from 7 kg to 3 kg;
- 4.1.1: apparatus for sampling tube introduced;
- 4.1.2.1 and 4.1.2.2: merged into Clause 4.1.2.1 (to enable introduction of sampling tube in 4.1.2.2);
- 4.1.2.1 recommendation on number of increments for mixtures with aggregate size ≥ 32 mm introduced;
- 4.1.2.2: procedure for sampling with sampling tube introduced;
- 4.6.3.1: new description for a representative sample drawing;
- 4.6.3.2: definition of a sufficient quantity of the sample dependent on the size of aggregate added;
- 4.6.4.3: definition of a sufficient quantity of the sample added;
- 4.7.2: change of the sufficient diameter for a cored sample;
- new Clause 4.10: sampling from a material hopper/paver;
- Figure 1: new type of sampling shovel added;
- Figures 3 and 4: new type of sampling tube added;
- Figure 9: example: sample drawing for collecting three bulk samples using sampling tube;
- where relevant, Notes has been converted to normal text in accordance with CEN-rules;
- notes regarding advantages/disadvantages for each method deleted.

EN 12697-27:2017 (E)

This European Standard is one of a series of standards as listed below:

EN 12697-1, Bituminous mixtures — Test methods for hot mix asphalt — Part 1: Soluble binder content

EN 12697-2, Bituminous mixtures — Test methods — Part 2: Determination of particle size distribution

EN 12697-3, Bituminous mixtures — Test methods for hot mix asphalt — Part 3: Bitumen recovery: Rotary evaporator

EN 12697-4, Bituminous mixtures — Test methods — Part 4: Bitumen recovery: Fractionating column

EN 12697-5, Bituminous mixtures — Test methods for hot mix asphalt — Part 5: Determination of the maximum density

EN 12697-6, Bituminous mixtures — Test methods for hot mix asphalt — Part 6: Determination of bulk density of bituminous specimens

EN 12697-7, Bituminous mixtures — Test methods for hot mix asphalt — Part 7: Determination of bulk density of bituminous specimens by gamma rays

EN 12697-8, Bituminous mixtures — Test methods for hot mix asphalt — Part 8: Determination of void characteristics of bituminous specimens

prEN 12697-10, Bituminous mixtures — Test methods — Part 10: Compactability

EN 12697-11, Bituminous mixtures — Test methods for hot mix asphalt — Part 11: Determination of the affinity between aggregate and bitumen

prEN 12697-12, Bituminous mixtures — Test methods — Part 12: Determination of the water sensitivity

prEN 12697-13, Bituminous mixtures — Test methods — Part 13: Temperature measurement

EN 12697-14, Bituminous mixtures — Test methods for hot mix asphalt — Part 14: Water content

EN 12697-15, Bituminous mixtures — Test methods for hot mix asphalt — Part 15: Determination of the segregation sensitivity

EN 12697-16, Bituminous mixtures — Test methods — Part 16: Abrasion by studded tyres

EN 12697-17, Bituminous mixtures — Test methods — Part 17: Particle loss of porous asphalt specimen

prEN 12697-18, Bituminous mixtures — Test methods — Part 18: Binder drainage

EN 12697-19, Bituminous mixtures — Test methods for hot mix asphalt — Part 19: Permeability of specimen

EN 12697-20, Bituminous mixtures — Test methods for hot mix asphalt — Part 20: Indentation using cube or cylindrical specimens (CY)

EN 12697-21, Bituminous mixtures — Test methods for hot mix asphalt — Part 21: Indentation using plate specimens

EN 12697-22, Bituminous mixtures — Test methods for hot mix asphalt — Part 22: Wheel tracking

prEN 12697-23, Bituminous mixtures — Test methods — Part 23: Determination of the indirect tensile strength of bituminous specimens

prEN 12697-24, Bituminous mixtures — Test methods — Part 24: Resistance to fatigue

EN 12697-25, Bituminous mixtures — Test methods — Part 25: Cyclic compression test

prEN 12697-26, Bituminous mixtures — Test methods — Part 26: Stiffness

EN 12697-27, Bituminous mixtures — Test methods — Part 27: Sampling

EN 12697-28, Bituminous mixtures — Test methods for hot mix asphalt — Part 28: Preparation of samples for determining binder content, water content and grading

EN 12697-29, Bituminous mixtures — Test methods for hot mix asphalt — Part 29: Determination of the dimensions of a bituminous specimen

EN 12697-30, Bituminous mixtures — Test methods for hot mix asphalt — Part 30: Specimen preparation by impact compactor

EN 12697-31, Bituminous mixtures — Test methods for hot mix asphalt — Part 31: Specimen preparation by gyratory compactor

EN 12697-32, Bituminous mixtures — Test methods for hot mix asphalt — Part 32: Laboratory compaction of bituminous mixtures by vibratory compactor

EN 12697-33, Bituminous mixtures — Test methods for hot mix asphalt — Part 33: Specimen prepared by roller compactor

EN 12697-34, Bituminous mixtures — Test methods for hot mix asphalt — Part 34: Marshall test

EN 12697-35, Bituminous mixtures — Test methods — Part 35: Laboratory mixing

EN 12697-36, Bituminous mixtures — Test methods for hot mix asphalt — Part 36: Determination of the thickness of a bituminous pavement

EN 12697-37, Bituminous mixtures — Test methods for hot mix asphalt — Part 37: Hot sand test for the adhesivity of binder on precoated chippings for HRA

EN 12697-38, Bituminous mixtures — Test methods for hot mix asphalt — Part 38: Common equipment and calibration

EN 12697-39, Bituminous mixtures — Test methods for hot mix asphalt — Part 39: Binder content by ignition

EN 12697-40, Bituminous mixtures — Test methods for hot mix asphalt — Part 40: In situ drainability

EN 12697-41, Bituminous mixtures — Test methods for hot mix asphalt — Part 41: Resistance to de-icing fluids

EN 12697-42, Bituminous mixtures — Test methods for hot mix asphalt — Part 42: Amount of foreign matter in reclaimed asphalt

EN 12697-43, Bituminous mixtures — Test methods for hot mix asphalt — Part 43: Resistance to fuel

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EN 12697-44, Bituminous mixtures — Test methods for hot mix asphalt — Part 44: Crack propagation by semi-circular bending test

EN 12697-45, Bituminous mixtures — Test methods for hot mix asphalt — Part 45: Saturation Ageing Tensile Stiffness (SATS) conditioning test

EN 12697-46, Bituminous mixtures — Test methods for hot mix asphalt — Part 46: Low temperature cracking and properties by uniaxial tension tests

EN 12697-47, Bituminous mixtures — Test methods for hot mix asphalt — Part 47: Determination of the ash content of natural asphalts

prEN 12697-48, Bituminous mixtures — Test methods — Part 48: Interlayer bonding

EN 12697-49, Bituminous mixtures — Test methods for hot mix asphalt — Part 49: Determination of friction after polishing

CEN/TS 12697-50, Bituminous mixtures — Test methods — Part 50: Resistance to scuffing

CEN/TS 12697-51, Bituminous mixtures — Test methods — Part 51: Surface shear strength test

prEN 12697-52, Bituminous mixtures — Test methods — Part 52: Conditioning to address oxidative ageing

prEN 12697-53, Bituminous mixtures — Test methods — Part 53: Cohesion increase by spreadability-meter method

The applicability of this European Standard is described in the product standards for bituminous mixtures.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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