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ASFALTSEGUD. KATSEMEETODID. OSA 23: ASFALTSEGUST PROOVIKEHADE KAUDSE TÕMBETUGEVUSE MÄÄRAMINE

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

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See Eesti standard EVS-EN 12697-23:2017 sisaldab Euroopa standardi EN 12697-23:2017 ingliskeelset teksti.	This Estonian standard EVS-EN 12697-23:2017 consists of the English text of the European standard EN 12697-23:2017.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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EUROPEAN STANDARD

NORME EUROPÉENNE

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English Version

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

Mélanges bitumineux - Méthode d'essais - Partie 23 : Détermination de la résistance à la traction indirecte des éprouvettes bitumineuses

Asphalt - Prüfverfahren - Teil 23: Bestimmung der indirekten Zugfestigkeit von Asphalt-Probekörpern

This European Standard was approved by CEN on 28 August 2017.

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European Foreword

This document (EN 12697-23:2017) 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of an identical text or by endorsement, at the latest by May 2018, and conflicting national standards shall be withdrawn at the latest by May 2018.

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 12697-23:2003.

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

— the series title no longer makes the method exclusively for hot mix asphalt;

— EN 12697-12 deleted as Normative reference, including any references to EN 12697-12 in this test method;

— [5.2] addition of device for test specimen with diameter 80 mm and 120 mm;

— [5.2] Table 1 and Table 2 merged into one Table 1;

— [6.2] addition of tolerances on diameter for specimens with diameter 80 mm and 120 mm;

— [6.2] addition of maximum aggregate size for specimens with diameter 80 mm and 120 mm;

— [6.5] introduction of requirements for specimen age;

— [8] test temperature set to + 10 °C but opened by references from other standards;

— [10] unit for ITS amended to kilopascals (kPa). Formula corrected accordingly;

— [11] bullet g). Unit amended to kilopascals (kPa).

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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1 Scope

This European Standard specifies a test method for determining the (splitting) indirect tensile strength of cylindrical specimens of bituminous mixtures.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

EN 12697-29, *Bituminous mixtures - Test method 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*

3 Terms and definitions

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

3.1
indirect tensile strength
ITS
maximum tensile stress calculated from the peak load applied to a cylindrical specimen loaded diametrically until break at specified test conditions

3.2
cylindrical specimen
laboratory-made (e.g. gyratory or impact-compacted) cylindrical moulded specimen or core taken from a bituminous layer or slab

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