

Bituminous mixtures - Test methods - Part 14: Water content

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 12697-14:2020 sisaldab Euroopa standardi EN 12697-14:2020 ingliskeelset teksti.	This Estonian standard EVS-EN 12697-14:2020 consists of the English text of the European standard EN 12697-14:2020.
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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English Version

Bituminous mixtures - Test methods - Part 14: Water content

Mélanges bitumineux - Méthodes d'essai - Partie 14 :
Teneur en eau

Asphalt - Prüfverfahren - Teil 14: Wassergehalt

This European Standard was approved by CEN on 18 November 2019.

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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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European foreword

This document (EN 12697-14:2020) has been prepared by Technical Committee CEN/TC 227 "Road materials", 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of an identical text or by endorsement, at the latest by August 2020, and conflicting national standards shall be withdrawn at the latest by August 2020.

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 12697-14:2000.

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;
- [ge] editorial update according to current standard template;
- [ge] NOTES modified or adjusted to normal text where appropriate according to ISO/IEC Directives – Part 2:2016, 24.5;
- European foreword: reference to the product standards for the applicability of this test method deleted;
- [Clause 2] reference to prEN 12697-27:2000, *Bituminous mixtures - Test methods for hot mix asphalt – Part 27: Sampling* replaced by EN 12697-27 *Bituminous mixtures - Test methods – Part 27: Sampling*;
- [Clause 3] missing clause, (3 Terms and definitions), introduced. Following clauses renumbered accordingly;
- [Clause 6] reference to prEN 12697-27:2000 replaced by EN 12697-27;
- [figures] moved and placed next to where they are referred to in Clause 5. For better resolution the corresponding figures from EN 12697-1 has been adopted;
- [Bibliography] reference to EN 12697-1:2000 deleted. EN 12697-38 added.

A list of all parts in the EN 12697 series can be found on the CEN website.

WARNING — The method described in this standard may require the use of dichloromethane (methylene chloride), this solvent is hazardous to health and is subject to occupational limits as detailed in relevant legislation and regulations.

Exposure levels are related to both handling procedures and ventilation provision and it is emphasized that adequate training should be given to staff employed in the usage of these substances.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This document describes a test method for the determination of the water content of samples of bituminous mixtures. The test method is suitable for checking conformity to a product specification, where required.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. 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*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp/ui>

4 Reagents

Solvents used in this document shall be capable of dissolving bitumen and distilling the solution to recover the water present. The solvents shall not decompose in water and shall have a boiling point of not more than 85 °C to prevent the water from boiling.

NOTE Currently all hydrocarbon solvents are regarded as “hazardous” and “environmentally unfriendly” to varying degrees.

Until such time as there is an agreed CEN policy with regard to their usage, each member state should specify its preferred solvent taking into account the Montreal Protocol and views of its own Regulatory Bodies (see also “Warning” in the European foreword).

When trichloroethylene is recovered by distillation for further use, care should be taken to ensure that the solvent still conforms to the appropriate requirements. In particular, acidity may develop and a useful precaution is to store the solvent over calcium oxide in coloured glass or suitable metal containers.

The solvent should be checked regularly to ensure that it is “dry”.

The method consists of preheating a probe attached to a temperature measuring device before measuring the temperature at stated depths in a number of locations while the asphalt is in one of several different places and then calculating the average.