



SLOVENSKI STANDARD SIST EN 12697-14:2020

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Nadomešča:

SIST EN 12697-14:2002

SIST EN 12697-14:2002/AC:2002

Bitumenske zmesi - Preskusne metode - 14. del: Delež vode

Bituminous mixtures - Test methods - Part 14: Water content

Asphalt - Prüfverfahren - Teil 14: Wassergehalt

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

Ta slovenski standard je istoveten z: EN 12697-14:2020

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ICS:

93.080.20 Materiali za gradnjo cest Road construction materials

SIST EN 12697-14:2020

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 12697-14

February 2020

ICS 93.080.20

Supersedes EN 12697-14:2000

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.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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 COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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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of an identical text or by endorsement, at the latest by August 2020, and conflicting national standards shall be withdrawn at the latest by August 2020.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.

EN 12697-14:2020 (E)

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.

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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.

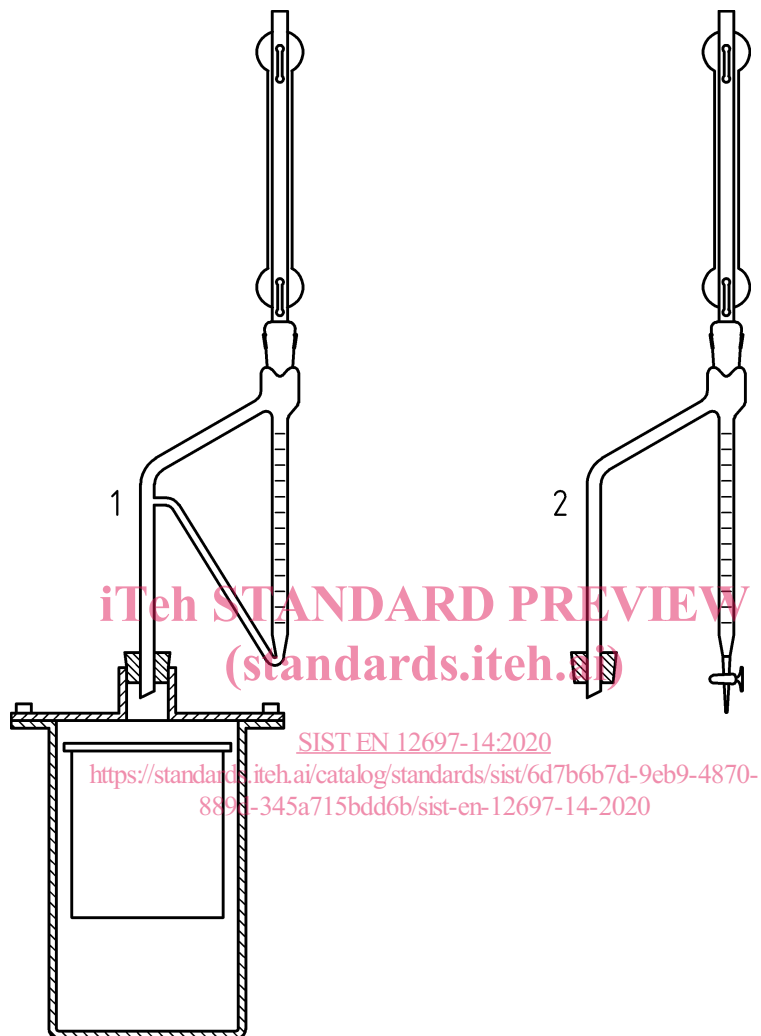
The solvent should be checked regularly to ensure that it is “dry”.

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.

5 Apparatus

Apparatus should be calibrated and traceable as recommended in EN 12697-38.

NOTE A suitable assembly is shown in Figure 1.



Key

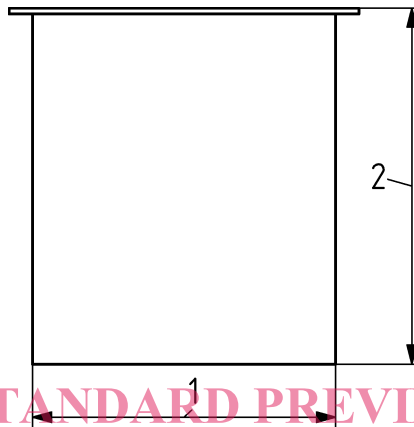
- 1 solvent density > 1
- 2 solvent density < 1

Figure 1 — Assembled apparatus for the hot extractor method

5.1 Hot extractor, consisting of a cylindrical container made from non-corrodible or brass gauze of about 1 mm to 2 mm aperture size or, alternatively, a spun copper tube with a ledge at the bottom of which a removable brass gauze disc rests. The container is retained, by any suitable means, in position in the top two-thirds of a metal pot. The pot is flanged and fitted with a secure cover and suitable jointing gasket. The cover is held in the position so that the joint between the container and the cover is solvent tight.

NOTE 1 The essential features of the construction are indicated in Figures 2 and 3.

NOTE 2 It is advantageous to have containers and pots of more than one size, the size employed being appropriate to quantity of material taken for analysis.



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Key

- 1 120 mm to 200 mm as appropriate
- 2 120 mm to 250 mm as appropriate

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Figure 2 — Cylindrical container for the hot extractor method