

STN	Asfaltové zmesi Skúšobné metódy Časť 22: Vyjazďovanie kolesom	STN EN 12697-22 73 6160
------------	--	---

Bituminous mixtures - Test methods - Part 22: Wheel tracking

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/20

Obsahuje: EN 12697-22:2020

Oznámením tejto normy sa ruší
STN EN 12697-22+A1 (73 6160) z januára 2008

130756

EUROPEAN STANDARD

EN 12697-22

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2020

ICS 93.080.20

Supersedes EN 12697-22:2003+A1:2007

English Version

Bituminous mixtures - Test methods - Part 22: Wheel trackingMélanges bitumineux - Méthodes d'essai - Partie 22 :
Essai d'orniérage

Asphalt - Prüfverfahren - Teil 22: Spurbildungstest

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.

CEN members are the national standards bodies of 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 United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

EN 12697-22:2020 (E)

Contents	Page
European foreword.....	3
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Symbols and abbreviated terms	6
5 Principle	7
6 Apparatus	7
6.1 Large size devices.....	7
6.2 Extra large devices.....	8
6.3 Small size devices for use with rectangular plates.....	9
6.4 Small-size devices for use with cores.....	11
7 Sampling and sample preparation	11
7.1 Test portion.....	11
7.2 Sampling and manufacture.....	12
7.3 Thickness and surface regularity.....	13
7.4 Transport and storage of unmounted specimens.....	14
7.5 Sample preparation.....	14
7.6 Storage.....	14
7.7 Temperature probes.....	14
8 Procedure for carrying out a single measurement	15
8.1 Large size devices.....	15
8.2 Extra-large size device.....	16
8.3 Small size devices.....	16
9 Calculation and expression of results	17
9.1 Large size devices.....	17
9.2 Extra-large size device.....	18
9.3 Small size devices.....	19
10 Test report	22
10.1 Obligatory information.....	22
10.2 Complementary information.....	23
11 Precision	24
11.1 General.....	24
11.2 Laboratory prepared samples, proportional rut depth, large size devices.....	24
11.3 Samples cored from a pavement and laboratory prepared samples, wheel-tracking rate, small-size devices, conditioning in air.....	24
11.4 Samples cored from a pavement and laboratory prepared samples, wheel-tracking rate, small-size devices, conditioning in air, procedure B.....	25
Bibliography	29

European foreword

This document (EN 12697-22:2020) 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 12697-22:2003+A1:2007.

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;
- [Clause 2] ISO 48, Rubber, vulcanized or thermoplastic — Determination of hardness (hardness between 10 IRHD and 100 IRHD), replaced by: ISO 48-2, Rubber, vulcanized or thermoplastic — Determination of hardness — Part 2: Hardness between 10 IRHD and 100 IRHD; ISO 7619, Rubber, vulcanized or thermoplastic — Determination of indentation hardness, replaced by: ISO 48-5, Rubber, vulcanized or thermoplastic — Determination of hardness — Part 5: Indentation hardness by IRHD pocket meter method;
- [3.5] Table 1 deleted;
- [Clause 4] symbols for properties in the different methods made more consistent and corrected through the whole document. Table 2 replaced by new Table 1;
- [Clause 6] moulds added to the list of equipment. Modifications for clarity;
- [6.3.1.2] ISO 7619 and ISO 48 replaced by: ISO 48-5 and 48-2;
- [7.1] new clause added and the order of clauses changed;
- [7.2.1.1] vibratory compactor excluded as a method of sample preparation;
- [7.2.1.2] thickness for mixtures with upper sieve size larger than 22 changed to 80 mm;
- [7.5.1] the text has been modified for clarity. “Plaster of Paris” amended to holding medium;
- [7.6] storage time amended to max 42 days and requirement added for storing samples on a flat surface;
- [8.1.7] deleted;
- [9.2.1] Formula (2) corrected;
- [9.3.1.2] Formula (7) corrected;
- [9.3.2.2] required rounding of WTS_{AIR} values specified;

EN 12697-22:2020 (E)

- [9.3.3.2] required rounding of WTS_W values specified;
- [10.1.2] type of roller compactor required to be reported;
- [11.4] precision data for small device, procedure B (air) added;

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

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 test methods for determining the susceptibility of bituminous materials to deform under load. The test is applicable to mixtures with upper sieve size less than or equal to 32 mm.

The tests are applicable to specimens prepared from asphalt mixtures that have either been manufactured in a laboratory or cut from a pavement; test specimens are held in a mould with their surface flush with the upper edge of the mould.

The susceptibility of bituminous materials to deform is assessed by the rut formed by repeated passes of a loaded wheel at constant temperature. Three alternative types of device can be used according to this standard: large-size devices, extra large-size devices and small-size devices. With large-size devices and extra large-size devices, the specimens are conditioned in air during testing. With small-size devices, specimens are conditioned, in either air or water.

NOTE Large-size and extra large-size devices are not suitable for use with cylindrical cores.

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 12697-6, *Bituminous mixtures — Test methods — 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 12697-27, *Bituminous mixtures — Test methods — Part 27: Sampling*

EN 12697-33, *Bituminous mixtures — Test method — Part 33: Specimen prepared by roller compactor*

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

ISO 48-2, *Rubber, vulcanized or thermoplastic — Determination of hardness — Part 2: Hardness between 10 IRHD and 100 IRHD*

ISO 48-5, *Rubber, vulcanized or thermoplastic — Determination of hardness — Part 5: Indentation hardness by IRHD pocket meter method*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN