SLOVENSKI STANDARD
oSIST prEN 12697-16:2023

01-december-2023

Bitumenske zmesi - Preskusne metode - 16. del: Obraba zaradi gum ježevk

Bituminous mixtures - Test methods - Part 16: Abrasion by studded tyres

Asphalt - Prüfverfahren - Teil 16: Abrieb durch Spikereifen

Mélanges bitumineux - Méthodes d'essai - Partie 16 : Abrasion par pneus à crampons

Ta slovenski standard je istoveten z: **prEN 12697-16**

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93.080.20 Materiali za gradnjo cest Road construction materials

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EUROPEAN STANDARD

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English Version

Bituminous mixtures - Test methods - Part 16: Abrasion by studded tyres

Mélanges bitumineux - Méthodes d'essai - Partie 16 : Abrasion par pneus à crampons

Asphalt - Prüfverfahren - Teil 16: Abrieb durch Spikereifen

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 227.

If this draft becomes a European Standard, 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.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (prEN 12697-16:2023) has been prepared by Technical Committee CEN/TC 227 Road materials, the secretariat of which is held by BSI.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 12697-16:2016.

prEN 12697-16:2023 includes the following significant technical changes with respect to EN 12697-16:2016:

— general editorial update according to current standard template and CEN/CENELEC Internal Regulations Part 3:2022;

— [2] deletion of “for hot mix asphalt” in titles of occurring test methods in EN 12697-series;

— [4.2.9] revised description of requirement. “Accuracy” amended to “maximum permissible error”;

— [4.3.2] deletion of Clause 4.3.2. Following Clauses re-numbered;

— [4.3.2] clarification of paragraph. (Clause 4.3.3 in previous version);

— [4.3.3] deletion of NOTE. (Clause 4.3.4 in previous version);

— [4.7] update of the contents in the test report;

— [5.2.6] update of the contents in the test report;

— [5.2.6] “accuracy” amended to “maximum permissible error”;

— [5.2.7] “accuracy” amended to “maximum permissible error”;

— [5.2.9] revised description of requirement. “Accuracy” amended to “maximum permissible error”;

— [5.3.2] deletion of Clause 4.3.2. Following Clauses re-numbered;

— [5.7] update of the contents in the test report;

— [Bibliography] deleted reference to EN 12697-29, Bituminous mixtures - Test method for hot mix asphalt - Part 29: Determination of the dimensions of a bituminous specimen. Clause deleted.

A list of all parts in a series can be found on the CEN website: www.cencenelec.eu.

1 Scope

This document specifies two test methods (method A and method B) for determining the susceptibility of abrasion by studded tyres, tested on cylindrical specimens of bituminous mixtures. The test methods are applicable to bituminous mixtures with aggregate with upper sieve size not exceeding 22 mm.

The tests are applicable to laboratory produced specimens or cores drilled from a slab or pavement.

NOTE 1 Method A originates from the 'Prall'-method, which has been improved by comprehensive Nordic research work. The method correlates with abrasion in the field when using paving grade bitumen. According to Nordic experience by method A the correlation between laboratory and abrasion in field is not established when polymer modified bitumen or rubber modified bitumen, etc. is used.

NOTE 2 Method B originates from Finnish experience and is suitable also when polymer modified bitumen is used. The correlation between laboratory and abrasion in field is not established when rubber is used.

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

EN 12697-30, *Bituminous mixtures - Test methods - Part 30: Specimen preparation by impact compactor*

EN 12697-31, *Bituminous mixtures - Test methods - Part 31: Specimen preparation by gyratory compactor*

EN 12697-32, *Bituminous mixtures - Test methods - Part 32: Specimen preparation by vibratory compactor*

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

ISO 3290-1, *Rolling bearings — Balls — Part 1: Steel balls*

3 Terms and definitions

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

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

— ISO Online browsing platform: available at https://www.iso.org/obp/

— IEC Electropedia: available at https://www.electropedia.org/

3.1
abrasion
loss of mass by abrasive action

Note 1 to entry: Expressed as volume loss in millilitres (ml).