

DIN EN 12697-46



ICS 93.080.20

Supersedes
DIN EN 12697-46:2012-07

**Bituminous mixtures –
Test methods –
Part 46: Low temperature cracking and properties by uniaxial tension
tests;
English version EN 12697-46:2020,
English translation of DIN EN 12697-46:2020-05**

Asphalt –
Prüfverfahren –
Teil 46: Widerstand gegen Kälterisse und Tieftemperaturverhalten bei einachsigen
Zugversuchen;
Englische Fassung EN 12697-46:2020,
Englische Übersetzung von DIN EN 12697-46:2020-05

Mélanges bitumineux –
Méthodes d'essai –
Partie 46: Fissuration et propriétés à basse température par des essais de traction uniaxiale;
Version anglaise EN 12697-46:2020,
Traduction anglaise de DIN EN 12697-46:2020-05

Document comprises 27 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original shall be considered authoritative.

A comma is used as the decimal marker.

National foreword

This document (EN 12697-46:2020) has been prepared by Technical Committee CEN/TC 227 “Road materials” (Secretariat: BSI, United Kingdom).

The responsible German body involved in its preparation was *DIN-Normenausschuss Bauwesen* (DIN Standards Committee Building and Civil Engineering), Working Committee NA 005-10-10 AA “Bituminous mixtures (national mirror committee for CEN/TC 227/WG 1), Joint working group with FGSV”.

Amendments

This standard differs from DIN EN 12697-46:2012-07 as follows:

- a) the title of the standards series has been changed so that it is no longer confined to hot mix asphalt;
- b) [general] the standard has been editorially updated according to the current standard template;
- c) [general] where appropriate, NOTES have been modified according to ISO/IEC Directives — Part 2:2016, 24.5;
- d) [Clause 4] the order of indent 3 and indent 4 has been changed for consistency with subclause 8.3 and subclause 8.4;
- e) [5.1.4] the subclause has been amended to read: Load measurement system, capable of monitoring the axial load up to $(25 \pm 0,025)$ kN with resolution of 0,001 kN or better and with an accuracy of $\pm 0,01$ kN or better;
- f) [5.1.4] the excessive and incorrect NOTE has been deleted;
- g) [5.2.1] the accuracy for the dynamic testing device (0,1 Hz) has been completed with “ \pm ”;
- h) [5.2.1] the key to Figure 8 has been corrected;
- i) [5.2.5] it has been clarified that the temperature is measured on a dummy specimen;
- j) [6.1.1] it has been clarified that the main reason for the required calibration is to obtain the correct loading condition;
- k) [7.3.1] a description for the sawing of prismatic specimen has been added to ensure a precise cross section;
- l) [7.3.2] a description for the thickness has been added to enable the sawing of prismatic specimen;
- m) [8.2.2] it has been clarified that the results of the test evaluation are measured (not failure stress and failure temperature);
- n) [8.5.1] the NOTE has been modified and adjusted to normal text according to ISO/IEC Directives — Part 2:2016, 24.5. A description for the suitable test temperature and testing frequency for intermediate low temperatures has been added;
- o) [8.5.3.6] the reason for measuring has been clarified.

Previous editions

DIN EN 12697-46: 2012-07

EUROPEAN STANDARD

EN 12697-46

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English Version

Bituminous mixtures - Test methods - Part 46: Low temperature cracking and properties by uniaxial tension tests

Mélanges bitumineux - Méthodes d'essai - Partie 46:
Fissuration et propriétés à basse température par des
essais de traction uniaxiale

Asphalt - Prüfverfahren - Teil 46: Widerstand gegen
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einachsigen Zugversuchen

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