

DIN EN 12697-5



ICS 93.080.20

Supersedes
DIN EN 12697-5:2010-04

**Bituminous mixtures –
Test methods –
Part 5: Determination of the maximum density;
English version EN 12697-5:2018,
English translation of DIN EN 12697-5:2019-03**

Asphalt –
Prüfverfahren –
Teil 5: Bestimmung der Rohdichte;
Englische Fassung EN 12697-5:2018,
Englische Übersetzung von DIN EN 12697-5:2019-03

Mélanges bitumineux –
Méthodes d'essai –
Partie 5: Masse volumique réelle (MVR);
Version anglaise EN 12697-5:2018,
Traduction anglaise de DIN EN 12697-5:2019-03

Document comprises 25 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 12697-5:2018) 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 committee with FGSV”.

Amendments

This standard differs from DIN EN 12697-5:2010-04 as follows:

- a) the title has been amended so that the method is no longer valid exclusively for hot mix asphalt;
- b) in Clause 4, a new NOTE has been added, explaining when the use of solvent is not suitable;
- c) in subclause 5.1, demineralized water has been added as an option, see also subclauses 9.2.3, 9.2.5, 9.3.3;
- d) in subclause 6.4, the description of accuracy for the balance has been amended;
- e) in subclause 6.8, the NOTE has been converted to regular text;
- f) in subclause 7.2, a description of loose samples and the minimum thickness for cored samples has been added in order to ensure consistency with EN 12697-6;
- g) a new subclause 7.3 has been included and a NOTE has been added, describing the recording of the thickness before cutting and cutting of cored samples;
- h) a new subclause 7.4 has been included, describing the recording of the thickness after cutting, and a description on when a cut sample is to be regarded as representative of the original thickness has been added;
- i) in subclause 8.2, a NOTE 2 has been added, explaining the extended drying time to constant mass which will be required in case of using additives that absorb water; the previous “NOTE” has been renumbered to “NOTE 1”;
- j) in subclause 9.2.3, a new NOTE has been added, explaining when the use of solvent is not suitable;
- k) subclause 9.4.1 has been amended to also include the percentage of additives in total mass;
- l) in subclause 10.1.2, Formula (1) has been amended according to Corrigendum EN 12697-5:2009/AC:2012;
- m) in subclause 10.3, the density of water has been adapted to the nearest “0,000 1” Mg/m³ according to subclause 10.1.2. This amendment also applies for subclauses 10.2, B.5.5 and C.7;
- n) in subclause 10.4, symbols for the density and the proportion of the binder have been amended in order to harmonize with other standards;

- o) in subclauses 10.4.1 and 10.4.2, Formula (4) and Formula (5) have been amended to include also the percentage of additives; a paragraph has been added, explaining that the completely dry state is to be considered when using additives that absorb water;
- p) a new subclause A.2.5 has been added, explaining when the use of solvent is not suitable; an explanatory NOTE has been added;
- q) in Annex B, symbols for the density and the proportion of the binder have been amended in order to harmonize with other standards.

Previous editions

DIN EN 12697-5: 2002-11, 2007-10, 2010-04