DIN EN 12697-49



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Bituminous mixtures – Test methods – Part 49: Determination of friction after polishing; English version EN 12697-49:2022, English translation of DIN EN 12697-49:2022-04

Asphalt – Prüfverfahren – Teil 49: Messung der Griffigkeit nach dem Polieren; Englische Fassung EN 12697-49:2022, Englische Übersetzung von DIN EN 12697-49:2022-04

Mélanges bitumineux – Méthodes d'essai – Partie 49: Détermination du frottement après polissage; Version anglaise EN 12697-49:2022, Traduction anglaise de DIN EN 12697-49:2022-04

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

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A comma is used as the decimal marker.

National foreword

This document (EN 12697-49:2022) 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".

DIN EN 12697 consists of the following parts, under the general title *Bituminous mixtures* — *Test methods:*

- Part 1: Soluble binder content
- Part 2: Particle size distribution
- Part 3: Bitumen recovery: Rotary evaporator
- Part 4: Bitumen recovery: Fractionating column
- Part 5: Determination of the maximum density
- Part 6: Determination of bulk density of bituminous specimens
- Part 7: Determination of the bulk density of bituminous specimens by gamma rays
- Part 8: Determination of void characteristics of bituminous specimens
- Part 10: Compactability
- Part 11: Determination of the affinity between aggregate and bitumen
- Part 12: Determination of the water sensitivity of bituminous specimen
- Part 13: Temperature measurement
- Part 14: Water content
- Part 15: Determination of the segregation sensitivity
- Part 16: Abrasion by studded tyres
- Part 17: Particle loss of porous asphalt specimens
- Part 18: Binder drainage
- Part 19: Permeability of specimen
- Part 20: Indentation using cube or Marshall specimens
- Part 21: Indentation using plate specimens

- Part 22: Wheel tracking
- Part 23: Determination of the indirect tensile strength of bituminous specimens
- Part 24: Resistance to fatigue
- Part 25: Cyclic compression test
- Part 26: Stiffness
- Part 27: Sampling
- Part 28: Preparation of samples for determining binder content, water content and grading
- Part 29: Determination of the dimensions of a bituminous specimen
- Part 30: Specimen preparation by impact compactor
- Part 31: Specimen preparation by gyratory compactor
- Part 32: Specimen preparation by vibratory compactor
- Part 33: Specimen prepared by roller compactor
- Part 34: Marshall test
- Part 35: Laboratory mixing
- Part 36: Determination of the thickness of bituminous pavement
- Part 37: Hot sand test for the adhesivity of binder on pre-coated chippings for Hot-Rolled-Asphalt (HRA)
- Part 38: Common equipment and calibration
- Part 39: Binder content by ignition
- Part 40: In situ drainability
- Part 41: Resistance to de-icing fluids
- Part 42: Amount of foreign matter in reclaimed asphalt
- Part 43: Resistance to fuel
- Part 44: Crack propagation by semi-circular bending test
- Part 45: Saturation Ageing Tensile Stiffness (SATS) conditioning test
- Part 46: Low temperature cracking and properties by uniaxial tension tests
- Part 47: Determination of the ash content of natural asphalts
- Part 48: Interlayer Bonding
- Part 49: Determination of friction after polishing

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- Part 53: Cohesion increase by spreadability-meter method
- Part 54: Curing of specimen for test of mixtures with bitumen emulsion
- Part 55: Organoleptic assessment of mixtures with bitumen emulsion
- Part 56: Specimen preparation by static compaction

The DIN document corresponding to the document referred to in this document is as follows:

ISO 48-4 DIN ISO 48-4

For current information on this document, please go to DIN's website (www.din.de) and search for the document number in question.

Amendments

This standard differs from DIN EN 12697-49:2014-05 as follows:

- a) the possibility of tracking the development of the FAP value depending on the number of passes has been included;
- b) the normative reference to ISO 48-4 has been amended for the determination of the Shore hardness;
- c) the definition of "pass" has been reworded, and information in the form of a note on the term has been included;
- d) the symbol " μ " has been included, and the definition of " μ_{FAP} " has been reworded;
- e) the requirement to perform the test under specific temperature and humidity conditions in the laboratory has been added;
- f) a reference to Annex A has been included;
- g) additional requirements with regard to the storage of the polishing rollers have been included;
- h) the heading has been reworded, and the unit of the moment of inertia has been corrected;
- i) the tolerance for measuring the moment has been amended;
- j) the criteria for the resilience of the slider rubber have been amended. Table 1 and the following paragraph have been deleted. The following tables have been renumbered accordingly;
- k) the value of the radius of curvature in Figure 4 has been corrected;
- l) the heading has been reworded, and a requirement for the μ_{ref} value has been added;
- m) additional requirements for the sand-blasting equipment have been included;
- n) additional requirements for the quartz powder have been included;
- o) additional requirements for the water/quartz-powder mixture have been included;
- p) the note on the supplier of corundum has been deleted;