

BITUUMEN JA BITUUMENSIDEAINED.
BITUUMENEMULSIONIDE SETTIMISKALDUVUSE
MÄÄRAMINE

Bitumen and bituminous binders - Determination of
settling tendency of bituminous emulsions

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 12847:2022 sisaldab Euroopa standardi EN 12847:2022 ingliskeelset teksti.	This Estonian standard EVS-EN 12847:2022 consists of the English text of the European standard EN 12847:2022.
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ICS 75.140, 91.100.50

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EUROPEAN STANDARD

EN 12847

NORME EUROPÉENNE

EUROPÄISCHE NORM

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ICS 75.140; 91.100.50

Supersedes EN 12847:2009

English Version

Bitumen and bituminous binders - Determination of settling tendency of bituminous emulsions

Bitumes et liants bitumineux - Détermination de la tendance à la décantation des émulsions bitumineuses

Bitumen und bitumenhaltige Bindemittel - Bestimmung des Absetzverhaltens von Bitumenemulsionen

This European Standard was approved by CEN on 13 June 2022.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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European foreword

This document (EN 12847:2022) has been prepared by Technical Committee CEN/TC 336 “Bituminous binders”, the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by January 2023, and conflicting national standards shall be withdrawn at the latest by January 2023.

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 12847:2009.

The main technical change is the possibility of using drying balance (EN 16849) for determination of water content in bituminous emulsions under certain conditions (for emulsions containing less than 1,5 % of a volatile flux) and with precautions to be taken (test temperature). The test method used for the determination of water content (EN 1428 or EN 1431 or EN 16849) is mentioned in the test report.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies 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 specifies a method for the determination of the settling tendency of bituminous emulsions.

WARNING — The use of this document can involve hazardous materials, operations and equipment. This document does not purport to address all of the safety problems associated with its use. It is the responsibility of the user of this document to establish appropriate safety and health practices and to determine the applicability of regulatory limitations prior to use.

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 58, *Bitumen and bituminous binders - Sampling bituminous binders*

EN 1428, *Bitumen and bituminous binders - Determination of water content in bituminous emulsions - Azeotropic distillation method*

EN 1431, *Bitumen and bituminous binders - Determination of residual binder and oil distillate from bitumen emulsions by distillation*

EN 12594, *Bitumen and bituminous binders - Preparation of test samples*

EN 16849, *Bitumen and bituminous binders - Determination of water content in bituminous emulsions - Method using a drying balance*

3 Terms and definitions

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

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

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1

settling tendency

difference in water content of the top layer and the bottom layer of a prescribed volume of sample after standing for a specified time at ambient temperature

4 Principle

The sample is allowed to stand for the specified time at ambient temperature in a stoppered graduated cylinder, after which the water contents of the top and bottom layers are determined either using EN 1428 or EN 1431 or EN 16849. The settling tendency is calculated as the difference between the two water contents.

5 Apparatus

Usual laboratory apparatus and glassware, together with the following.