

Bitumen and bituminous binders - Determination of efflux time of bitumen emulsions by the efflux viscometer

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viscometer

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 12846:2002 sisaldab Euroopa standardi EN 12846:2002 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 18.10.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 12846:2002 consists of the English text of the European standard EN 12846:2002.</p> <p>This document is endorsed on 18.10.2002 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This European Standard specifies a method for the determination of the efflux time of bitumen emulsions.*</p>	<p>Scope: This European Standard specifies a method for the determination of the efflux time of bitumen emulsions.*</p>
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ICS 75.140, 91.100.50

Võtmesõnad: binders, binding agents, bitumen emulsions, bitumens, bituminous, construction, emulsions, flow time, materials, petroleum products, viscometers

ICS 75.140; 91.100.50

English version

Bitumen and bituminous binders - Determination of efflux time of
bitumen emulsions by the efflux viscometer

Bitumes et liants bitumineux - Détermination du temps
d'écoulement des émulsions de bitume à l'aide d'un
viscosimètre à écoulement

Bitumen und bitumenhaltige Bindemittel - Bestimmung der
Ausflusszeit von Bitumenemulsionen mittels
Ausflussviskosimeter

This European Standard was approved by CEN on 15 February 2002.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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

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Foreword

This document EN 12846:2002 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 November 2002, and conflicting national standards shall be withdrawn at the latest by November 2002.

This European Standard is part of a package including 14 standards: EN 1428, EN 1429, EN 1430, EN 1431, EN 12846, EN 12847, EN 12848, EN 12849, EN 12850, EN 13074, EN 13075-1, EN 13075-2, EN 13614 and EN 13808.

Annex A forms a normative part of this document.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard specifies a method for the determination of the efflux time of bitumen emulsions.

NOTE For the purposes of this European Standard, the term “% (m/m)” is used to represent the mass fraction.

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

2 Normative references

This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies (including amendments).

EN 58¹⁾, *Bitumen and bituminous binders - Sampling bituminous binders*.

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

ISO 4788, *Laboratory glassware - Graduated measuring cylinders*.

3 Terms and definitions

For the purposes of this European Standard, the following term and definition apply.

3.1

efflux time

time required for a specified volume of emulsion to flow out of the cup of a specified efflux viscometer

NOTE Efflux time gives an indication of the pseudoviscosity of a bitumen emulsion.

4 Principle

The efflux time of a bitumen emulsion is determined, using an efflux viscometer, as the time of efflux of a given quantity of the emulsion through an orifice of a specified size at a specified temperature.

5 Reagents and materials

5.1 Light mineral oil

5.2 Solution Sa

An aqueous solution containing 1 % (m/m) of sodium lauryl sulfate or, failing that, an aqueous solution containing 1 % (m/m) of sodium oleate. In these solutions, 1 % (m/m) of sodium hydroxide shall be added.

This type of solution shall be used for testing anionic emulsions.

¹⁾ In course of revision.