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Bitumen and bituminous binders - Determination of dynamic viscosity of bituminous binder using a rotating spindle apparatus

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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EUROPEAN STANDARD

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Supersedes EN 13302:2010

English Version

Bitumen and bituminous binders - Determination of dynamic viscosity of bituminous binder using a rotating spindle apparatus

Bitumes et liants bitumineux - Détermination de la viscosité dynamique des liants bitumineux à l'aide d'un viscosimètre tournant

Bitumen und bitumenhaltige Bindemittel - Bestimmung der dynamischen Viskosität von bitumenhaltigem Bindemittel mit einem Viskosimeter mit rotierender Spindel

This European Standard was approved by CEN on 15 February 2018.

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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 CEN-CENELEC Management Centre has the same status as the official versions.

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

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EN 13302:2018 (E)

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European foreword

This document (EN 13302:2018) 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of an identical text or by endorsement, at the latest by December 2018, and conflicting national standards shall be withdrawn at the latest by December 2018.

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 13302:2010.

The main technical changes in comparison to the previous edition are:

- clarification of the test sample preparation procedure in the case of cut-back and fluxed bituminous binders (subclauses 7.4.1 and 7.4.3);
- subclauses 7.3.8 and 7.4.9 (of EN 13302:2010) on how to determine viscosity in relation to shear rate for non-Newtonian bituminous emulsions and cut-back and fluxed bituminous binders are converted into a more general Note;
- more consistent description and use of radius R1 and R2 in-between Figure 1, subclause 5.1 and Clause 10;
- subclause 5.2: the possibility to use a DSR apparatus has been introduced.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

EN 13302:2018 (E)**1 Scope**

This document specifies a method for the determination of the dynamic viscosity of a variety of bituminous binders: modified and unmodified bituminous binders, bituminous emulsions, cut-back and fluxed bituminous binders, by means of a rotating spindle apparatus (a coaxial viscometer).

Standard application temperatures are quoted, although the dynamic viscosity can be measured at other temperatures if required. Similarly, measurements at standard values of shear rate can be replaced or complemented by measurements at additional shear rates if required.

WARNING — The use of this document may 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 12594, *Bitumen and bituminous binders — Preparation of test samples*

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