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BSI Standards Publication

Bitumen and bituminous binders — Determination of the paraffin wax content

Part 1: Method by distillation

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National foreword

This British Standard is the UK implementation of EN 12606-1:2015. It supersedes BS EN 12606-1:2007/BS 2000-459.1:2000 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee B/510/19, Bitumen and related products.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Amendments/corrigenda issued since publication

Date	Text affected
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English Version

Bitumen and bituminous binders - Determination of the paraffin wax content - Part 1: Method by distillation

Bitumes et liants bitumineux - Détermination de la teneur en paraffines - Partie 1 : Méthode par distillation

Bitumen und bitumenhaltige Bindemittel - Bestimmung des Paraffingehaltes - Teil 1: Destillationsverfahren

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Foreword

This document (EN 12606-1:2015) has been prepared by Technical Committee CEN/TC 336 “Bituminous binders”, the secretariat of which is held by AFNOR.

This document supersedes EN 12606-1:2007.

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of an identical text or by endorsement, at the latest by January 2016, and conflicting national standards shall be withdrawn at the latest by January 2016.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

The standard has been revised due to a normative reference to mercury thermometers. The changes involve mainly the text in 6.2. The terms “sample thermometer” and “bath thermometer” have been changed, as a consequence, to “sample temperature transducer” and “bath temperature transducer” respectively in some subparagraphs of Clause 8.

This draft European standard EN 12606 consists of the following parts under the general title *Bitumen and bituminous binders – Determination of the paraffin wax content*

— Part 1: Method by distillation;

— Part 2: Method by extraction.

The changes introduced mainly involve the revision of the text in 6.2 relating to the mentioning of mercury thermometers as reference thermometers.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard specifies a procedure for determining the paraffin wax content of bitumen and bituminous binder by the DIN method.

Aqueous bituminous binders, fluxed or cut-back anhydrous binders, and modified binders, whatever their consistency, are not within the scope of the present test method.

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

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 1425, *Bitumen and bituminous binders - Characterization of perceptible properties*

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

EN ISO 3696:1995, *Water for analytical laboratory use - Specification and test methods (ISO 3696:1987)*

ISO 383, *Laboratory glassware — Interchangeable conical ground joints*

3 Terms and definitions

For the purposes of this document, the following term and definition applies.

3.1
paraffin wax
mixture of hydrocarbons crystallising in a 50 % volume fraction mixture of ether/ethanol at temperatures down to - 20 °C, obtained by a specified process and having a melting range of above 25 °C

4 Principle

Paraffin wax present in bitumen is determined in the distillate obtained from a specified distillation process.