



BSI Standards Publication

Bitumen and bituminous binders - Recovery of binder from bituminous emulsion or cut- back or fluxed bituminous binders

Part 2: Stabilization after recovery by evaporation

National foreword

This British Standard is the UK implementation of EN 13074-2:2019. It is dual numbered as BS 2000-542:2019. It supersedes BS EN 13074-2:2011 (dual numbered as BS 2000-542:2011), which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PTI/13, Petroleum Testing and Terminology.

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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EUROPEAN STANDARD

EN 13074-2

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February 2019

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English Version

**Bitumen and bituminous binders - Recovery of binder
from bituminous emulsion or cut-back or fluxed
bituminous binders - Part 2: Stabilization after recovery
by evaporation**

Bitumes et liants bitumineux - Récupération
du liant d'une émulsion de bitume ou d'un
bitume fluidifié ou fluxé - Partie 2 : Stabilisation
après récupération par évaporation

Bitumen und bitumenhaltige Bindemittel
- Rückgewinnung des Bindemittels aus
Bitumenemulsion oder verschnittenen oder
gefluxten Bitumen - Teil 2: Stabilisierung
nach Rückgewinnung durch Verdunstung

This European Standard was approved by CEN on 19 November 2018.

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European foreword

This document (EN 13074-2:2019) 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of an identical text or by endorsement, at the latest by August 2019, and conflicting national standards shall be withdrawn at the latest by August 2019.

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 13074-2:2011.

The main technical changes are:

- more precise requirements for the ventilated oven (5.1) and the metallic plates (5.2), as well as for the placing of the plates within the oven (6.1);
- description of additional equipment (spatula, oven, beaker) to be used for the removal and reheating of the stabilised binder (5.3 to 5.5);
- shorter storage period of the stabilised binder samples before further testing (6.2);
- more precise instructions (reheating temperatures and maximum reheating time) for the preparation of the stabilised binder sample prior to further testing (6.3).

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.

1 Scope

This document specifies a method for the stabilisation at 85 °C for 24 h of a binder after recovery from a bituminous emulsion or from a cut-back or fluxed bitumen for further testing.

It applies to all types of bituminous emulsions, modified with polymers or non-modified, and as well as to all types of cut-back and fluxed bitumen, both modified with polymers and non-modified.

The recovery test method is specified in EN 13074-1.

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 referenced documents are indispensable for the application 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 12594, *Bitumen and bituminous binders — Preparation of test samples*

EN 13074-1, *Bitumen and bituminous binders — Recovery of binder from bituminous emulsion or cut-back or fluxed bituminous binders — Part 1: Recovery by evaporation*

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

3.1 recovered binder

material remaining after the treatment of a bituminous emulsion or a cut-back or fluxed bitumen under the conditions specified in EN 13074-1

3.2 stabilised binder

binder free from most of the volatile part of its flux oils, obtained from recovered binder by heating at 85 °C for 24 h under the conditions specified according to this method

4 Principle

A thin layer of recovered binder from a bituminous emulsion or a cut-back or fluxed bituminous product is stabilised for 24 h at 85 °C in a ventilated oven.

5 Apparatus

Usual laboratory apparatus and glassware, together with the following:

5.1 Ventilated oven

- capable of maintaining a temperature of (85 ± 2) °C around the sample;