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I.S. EN 13304:2009

# Bitumen and bituminous binders - Framework for specification of oxidised bitumens

## I.S. EN 13304:2009

*Incorporating amendments/corrigenda issued since publication:*

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|---|--|---|-------------------------|
| <i>This document replaces:</i><br>I.S. EN 13304:2003  | <i>This document is based on:</i><br>EN 13304:2009<br>EN 13304:2003        | <i>Published:</i><br>18 March, 2009<br>15 August, 2003                    |                         |
| This document was published under the authority of the NSAI and comes into effect on:<br>15 May, 2009 |  | ICS number:<br>75.140<br>91.100.50  |                         |
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English Version

## Bitumen and bituminous binders - Framework for specification of oxidised bitumens

Bitumes et liants bitumineux - Cadre de spécifications des bitumes oxydés

Bitumen und bitumenhaltige Bindemittel - Spezifikationsrahmen für oxidiertes Bitumen

This European Standard was approved by CEN on 10 February 2009.

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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 Management Centre has the same status as the official versions.

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## **Foreword**

This document (EN 13304:2009) 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of an identical text or by endorsement, at the latest by September 2009, and conflicting national standards shall be withdrawn at the latest by September 2009.

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.

This document supersedes EN 13304:2003.

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

## **1 Scope**

This European Standard provides a framework for the specification of oxidised bitumens used mainly in roofing, waterproofing, adhesives and thermal and phonic insulations.

Within Europe several types of oxidised bitumens are used and, dependent on climatic conditions, type of building construction and traditional practices, different grades may be used for the same purpose. The framework given in this European standard provides a basis for quality agreements to be established between supplier and client.

The oxidised bitumen products are graded by a combination of the values of ring and ball softening point, and penetration at 25 °C, expressed as multiples of 5.

## **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 1426, *Bitumen and bituminous binders – Determination of needle penetration*

EN 1427, *Bitumen and bituminous binders – Determination of the softening point – Ring and Ball method*

EN 12592, *Bitumen and bituminous binders – Determination of solubility*

EN 12593, *Bitumen and bituminous binders – Determination of the Fraass breaking point*

EN 13301, *Bitumen and bituminous binders – Determination of staining tendency of bitumen*

EN 13302, *Bitumen and bituminous binders – Determination of viscosity of bitumen using a rotating spindle apparatus*

EN 13303, *Bitumen and bituminous binders – Determination of the loss in mass after heating of industrial bitumen*

EN 15326, *Bitumen and bituminous binders – Measurement of density and specific gravity – Capillary-stoppered pycnometer method*

EN ISO 2592, *Determination of flash and fire points - Cleveland open cup method (ISO 2592:2000)*

## **3 Properties and test methods**

The specification of oxidised bitumens shall be made according to the rules given in Table 1:

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