



SLOVENSKI STANDARD

SIST EN 13305:2003

01-december-2003

Bitumen in bitumenska veziva – Okvirna specifikacija za trde industrijske bitumne

Bitumen and bituminous binders - Framework of specification of hard industrial bitumens

Bitumen und bitumenhaltige Bindemittel - Spezifikationsrahmen für Hartbitumen für industrielle Anwendungen

Bitumes et liants bitumineux - Cadre de spécifications des bitumes industriels durs
(standards.iteh.ai)

Ta slovenski standard je istoveten z: **EN 13305:2003**

<https://standards.iteh.ai/catalog/standards/sist/bd18d026-1e89-49b6-b33d-469f049a12cc/sist-en-13305-2003>

ICS:

75.140	Voski, bitumni in drugi naftni proizvodi	Waxes, bituminous materials and other petroleum products
91.100.50	Veziva. Tesnilni materiali	Binders. Sealing materials

SIST EN 13305:2003

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 13305:2003

<https://standards.iteh.ai/catalog/standards/sist/bd18d026-1e89-49b6-b33d-469f049a12cc/sist-en-13305-2003>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 13305

April 2003

ICS 75.140; 91.100.50

English version

Bitumen and bituminous binders - Framework of specification of hard industrial bitumens

Bitumes et liants bitumineux - Cadre de spécifications des bitumes industriels durs

Bitumen und bitumenhaltige Bindemittel - Spezifikationsrahmen für Hartbitumen für industrielle Anwendungen

This European Standard was approved by CEN on 17 January 2003.

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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

[SIST EN 13305:2003](https://standards.iteh.ai/catalog/standards/sist/bd18d026-1e89-49b6-b33d-469f049a12cc/sist-en-13305-2003)

<https://standards.iteh.ai/catalog/standards/sist/bd18d026-1e89-49b6-b33d-469f049a12cc/sist-en-13305-2003>



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents

page

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Properties and test methods	4
4 Typical grades	5

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 13305:2003](https://standards.iteh.ai/catalog/standards/sist/bd18d026-1e89-49b6-b33d-469f049a12cc/sist-en-13305-2003)

<https://standards.iteh.ai/catalog/standards/sist/bd18d026-1e89-49b6-b33d-469f049a12cc/sist-en-13305-2003>

Foreword

This document (EN 13305:2003) has been prepared by 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 October 2003, and conflicting national standards shall be withdrawn at the latest by October 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 13305:2003](#)

<https://standards.iteh.ai/catalog/standards/sist/bd18d026-1e89-49b6-b33d-469f049a12cc/sist-en-13305-2003>

EN 13305:2003 (E)**1 Scope**

This European Standard provides a framework for the specification of hard industrial bitumen used mainly in flooring, varnishes, mineral rubber, roofing and mastic.

Within Europe several types of hard industrial bitumen are used, and dependent upon traditional practices, different grades may be used for the same purpose. The framework given in this Standard provides a basis for quality agreements to be established between supplier and client.

The hard industrial bitumen products are graded by the limits of the ring and ball softening point values, expressed as multiples of 5, and are characterised by an H in front of the values.

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 (included amendments).

EN 1426, *Bitumen and bituminous binders - Determination of needle penetration.*

EN 1427, *Bitumen and bituminous binders - Determination of softening point - Ring and ball method.*

EN 12592, *Bitumen and bituminous binders - Determination of solubility.*

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

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

EN ISO 3838, *Crude petroleum and liquid or solid petroleum products - Determination of density or relative density - Capillary-stoppered pyknometer and graduated bicapillary pyknometer methods (ISO 3838:1983).*

3 Properties and test methods

Hard industrial bitumens are specified according to the limits of softening point values. The specification of a hard industrial bitumen with stated values shall be made according to the rules given in Table 1:

Table 1 — Properties and test methods

Property	Limits and tolerances	Test methods
Ring and ball softening point	± 5 °C of value	EN 1427
Penetration at 25 °C ^a	b	EN 1426
Solubility in xylene ^c	min. 99 %	EN 12592
Loss on heating	b	EN 13303
Flash point	> 250 °C	EN ISO 2592
Density	b	EN ISO 3838
<p>^a taking into account the precision of the test method and the specification limits it may be necessary to carry out the test at 40 °C.</p> <p>^b Values can be agreed between client and supplier.</p> <p>^c If other solvents are used, it shall be stated in the test report.</p>		

4 Typical grades

Typical grades for hard industrial bitumen are:

H 80/90; H 85/95; H 90/100; H 100/110; H 155/165.

EXAMPLE H 85/95 means that the softening point of the product is between 85 °C and 95 °C.

NOTE This list does not imply that the grades are available in all countries, neither is it intended to be comprehensive or limiting. Other grades may be supplied in accordance with the local custom or circumstance, and by agreement between client and supplier.