



SLOVENSKI STANDARD

SIST EN 13305:2009

01-julij-2009

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SIST EN 13305:2003

Bitumen in bitumenska veziva - Okvirna specifikacija za trde industrijske bitumne

Bitumen and bituminous binders - Framework for 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

Ta slovenski standard je istoveten z: EN 13305:2009
SIST EN 13305:2009
http://www.sist.si/standards/sist-en-13305-4ae1-ab31-c3392f651031/sist-en-13305-2009

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 13305:2009

en,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 13305

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Supersedes EN 13305:2003

English Version

**Bitumen and bituminous binders - Framework for 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 10 February 2009.

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

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Contents

Page

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

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[SIST EN 13305:2009](https://standards.iteh.ai/catalog/standards/sist/591efd13-db35-4ae1-ab31-c3392f651031/sist-en-13305-2009)

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Foreword

This document (EN 13305:2009) 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.

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EN 13305:2009 (E)

1 Scope

This European Standard provides a framework for the specification of hard industrial bitumens 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 European 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

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 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

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

Table 1 — Properties and test methods

Property	Test methods	Unit	Limits and tolerance
Ring and ball softening point ^a	EN 1427	°C	± 5 of mid-point value ^e
Penetration at 25 °C ^b	EN 1426	0,1 mm	^c
Solubility in toluene ^d	EN 12592	%	≥ 99,0
Loss in mass after heating	EN 13303	%	NR ^c
Flash point	EN ISO 2592	°C	> 250
Density	EN 15326	kg/m ³	NR ^c
<p>a Ring and ball softening point testing for hard industrial bitumens are carried out in glycerol, as the values typically are above 80 °C.</p> <p>b 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>c NR: No requirements. Values can be agreed between the clients and the suppliers</p> <p>d If other solvents are used, it shall be stated in the test report.</p> <p>e Mid-point value: value which defines the ring and ball softening point class</p>			

4 Typical grades

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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 all 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 practices, and by agreement between client and supplier.