



# **SLOVENSKI STANDARD**

## **kSIST prEN 13305:2008**

**01-december-2008**

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### **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: prEN 13305**

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#### **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

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**FINAL DRAFT**  
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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

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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
Bibliography .....	6

## Foreword

This document (prEN 13305:2008) has been prepared by Technical Committee CEN/TC 336 “Bituminous binders”, the secretariat of which is held by AFNOR.

This document is currently submitted to the Unique Acceptance Procedure.

This document will supersede EN 13305:2003.

## 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 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	Limits and tolerance	Test methods
Ring and Ball softening point <sup>a</sup>	$\pm 5$ °C of value	EN 1427
Penetration at 25 °C <sup>b</sup>	<sup>c</sup>	EN 1426
Solubility in toluene <sup>d</sup>	$\geq 99,0$ %	EN 12592
Loss on heating	<sup>c</sup>	EN 13303
Flash point	$> 250$ °C	EN ISO 2592
<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 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>		

NOTE Density should be determined, when necessary, in accordance with EN 15326. Values can be agreed between the client and the supplier.

## 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 customs or circumstances, and by agreement between client and supplier.

## Bibliography

- [1] EN 15326, *Bitumen and bituminous binders – Measurement of density and specific gravity – Capillary stoppered-pyknometer method*