



**SLOVENSKI STANDARD**  
**kSIST prEN 13303:2008**

**01-december-2008**

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Bitumen and bituminous binders - Determination of the loss in mass after heating of industrial bitumen

Bitumen und bitumenhaltige Bindemittel - Bestimmung des Masseverlustes von Industriebitumen nach Erwärmung

Bitumes et liants bitumineux - Détermination de la perte de masse au chauffage des bitumes industriels

**Ta slovenski standard je istoveten z: prEN 13303**

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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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**en,fr,de**



EUROPEAN STANDARD  
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**FINAL DRAFT**  
**prEN 13303**

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ICS 75.140; 91.100.50

Will supersede EN 13303:2003

English Version

## Bitumen and bituminous binders - Determination of the loss in mass after heating of industrial bitumen

Bitumes et liants bitumineux - Détermination de la perte de masse au chauffage des bitumes industriels

Bitumen und bitumenhaltige Bindemittel - Bestimmung des Masseverlustes von Industriebitumen nach Erwärmung

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## Foreword

This document (prEN 13303:2008) 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 13303:2003.

## prEN 13303:2008 (E)

### 1 Scope

This European Standard specifies a method for the determination of the loss in mass of industrial bitumen after heating. The method is used to detect volatile components.

NOTE The users of the method are encouraged to gather comparative information on binders using this standard, EN 13303, and EN 12607-2 at 163 °C to facilitate the withdrawal of EN 13303 at the next systematic review.

**WARNING — The use of this standard may involve hazardous materials, operations and equipment. This standard does not purport to address all of the safety problems associated with its use. It is the responsibility of the user of this standard 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 58, *Bitumen and bituminous binders – Sampling bituminous binders*

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

EN 12594, *Bitumen and bituminous binders – Preparation of test samples*

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

**3.1**  
**loss on heating**  
ratio between the loss of mass of a heated sample and its initial mass, expressed as a percentage of the latter

### 4 Principle

A weighed sample is heated for a specified time at a specified temperature and is re-weighed at the conclusion of the heating period.

### 5 Apparatus

**5.1 Oven**, electrically heated and conforming to the performance requirements for ovens ventilated by natural convection and for operating temperatures up to 180 °C.

The oven shall be rectangular with minimum interior dimensions of 330 mm in each direction. The oven shall have in front a tightly fitting hinged door, which shall provide a clear opening, substantially the same as the interior height and width of the oven. The door may contain a window with dimensions of at least 100 mm x 100 mm, and with two sheets of glass separated by an air space, through which a vertical thermometer (5.3) located as specified in 7.8, may be read without opening the door, or the oven may be provided with an inner glass door through which the thermometer may be observed on opening the outer door momentarily.

The oven shall be adequately ventilated by convection currents of air and for this purpose shall be provided with openings for the entrance of ambient air and regress of heated air and vapours. These openings may be of any size and arrangement provided the temperature requirements of the test are met.

## **5.2 Rotating shelf (see Figure 1)**

The oven shall be provided with a circular metal shelf having a minimum nominal diameter of 250 mm. The shelf shall be suspended by a vertical shaft and centred with respect to the horizontal interior dimensions. The shelf shall be provided with a mechanical means of rotating it at the rate of 5 rpm to 6 rpm. The shelf shall be vertically located as close to the centre of the oven as permitted by compliance with the requirements of the procedure regarding thermometer placement.

NOTE An example of the shelf is shown in Figure 1.

Dimensions in millimetres

Tolerances not mentioned on the figure are equal to 0,5 mm

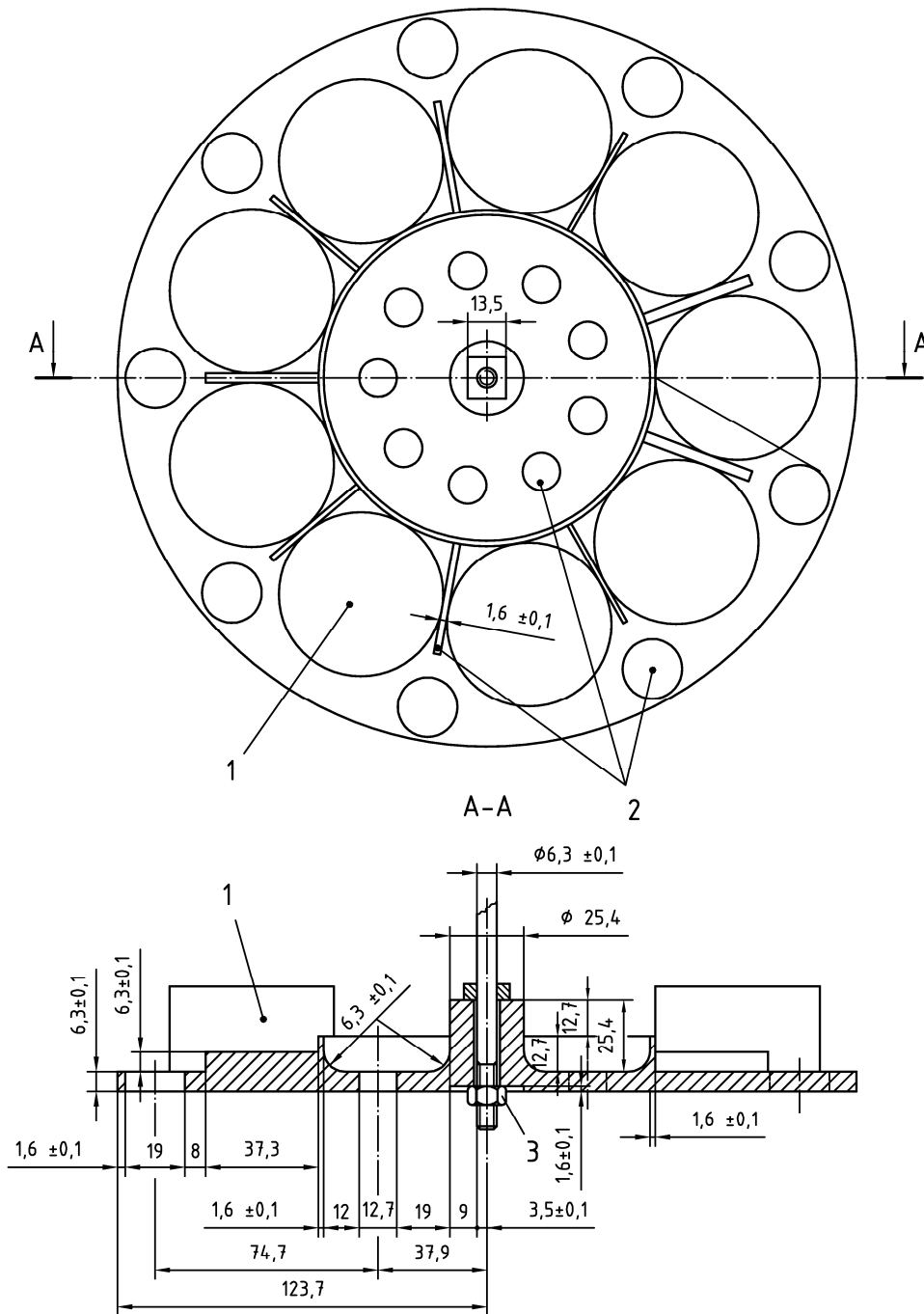


Figure 1 — Aluminium shelf (example)

KEY

1. Position of boxes
2. 9 holes and ribs spaced equally
3. Nut of 6