



**SLOVENSKI STANDARD**  
**SIST EN ISO 18332:2008**  
**01-april-2008**

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**Kovinske in druge anorganske prevleke - Definicije in dogovori v zvezi s poroznostjo (ISO 18332:2007)**

Metallic and other inorganic coatings - Definitions and conventions concerning porosity (ISO 18332:2007)

Metallische und andere anorganische Überzüge - Definitionen und Festlegungen, die die Porigkeit betreffen (ISO 18332:2007)

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Revetements métalliques et autres revêtements inorganiques - Définitions et principes concernant la porosité (ISO 18332:2007)

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English Version

## Metallic and other inorganic coatings - Definitions and conventions concerning porosity (ISO 18332:2007)

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Metallische und andere anorganische Überzüge - Definitionen und Festlegungen, die die Porigkeit betreffen (ISO 18332:2007)

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COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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## Foreword

The text of ISO 18332:2007 has been prepared by Technical Committee ISO/TC 107 "Metallic and other inorganic coatings" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 18332:2008 by Technical Committee CEN/TC 262 "Metallic and other inorganic coatings", the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by July 2008, and conflicting national standards shall be withdrawn at the latest by July 2008.

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 13143:2003.

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The text of ISO 18332:2007 has been approved by CEN as EN ISO 18332:2008 without any modifications.

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Definitions and conventions concerning  
porosity**

*Revêtements métalliques et autres revêtements inorganiques —  
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## Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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ISO 18332 was prepared by Technical Committee ISO/TC 107, *Metallic and other inorganic coatings*, Subcommittee SC 7, *Corrosion tests*.

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# Metallic and other inorganic coatings — Definitions and conventions concerning porosity

## 1 Scope

This International Standard defines porosity and its associated terms, and outlines the principles involved in porosity testing of metallic and related inorganic coatings. The purpose of porosity testing is also considered, thereby assisting the user to select the most suitable test for the product and its service application.

The porosity test cannot be used to establish corrosion-performance standards.

## 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.

ISO 10308:2006, *Metallic coatings — Review of porosity tests*

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## 3 Terms and definitions

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

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### 3.1

#### porosity

holes, cracks or other **discontinuities** (3.3) in the coating that expose the underlying metal or substrate to the environment

### 3.2

#### pore in a coating

an essentially circular **discontinuity** (3.3) in the surface extending through to the underlying coating or to the basis metal

[ISO 2080:1981]

NOTE Types of pores are shown in ISO 10308.

### 3.3

#### discontinuity

opening in an otherwise continuous coating that exposes a different underlying metal

NOTE Typically, the openings are cracks, micro-holes, pores or pits in the coating. They can also be voids or breaks in the coating caused by mechanical damage, such as scratches or non-conductive inclusions in the basis metal (see ISO 10308).

### 3.4

#### corrosion product

substance formed as a result of corrosion

[ISO 8044:1999]