



SLOVENSKI STANDARD
SIST EN ISO 12687:1999

01-oktober-1999

Kovinske prevleke - Ugotavljanje poroznosti - Preskus z žveplovimi parami v vlažni atmosferi (žvepleni cvet) (ISO 12687:1996)

Metallic coatings - Porosity tests - Humid sulfur (flowers of sulfur) test (ISO 12687:1996)

Metallische Überzüge - Prüfung der Porosität - Naß-Schwefelverfahren (mit Schwefelblüte) (ISO 12687: 1996)

Revetements métalliques - Essais de porosité - Essai a la fleur de soufre par voie humide (ISO 12687:1996)

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Ta slovenski standard je istoveten z: EN ISO 12687:1998

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ICS:

25.220.40 Kovinske prevleke Metallic coatings

SIST EN ISO 12687:1999 **en**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 12687

March 1998

ICS 25.220.40

Descriptors: see ISO document

English version

Metallic coatings - Porosity tests - Humid sulfur (flowers of sulfur) test (ISO 12687:1996)

Revêtements métalliques - Essais de porosité - Essai à la fleur de soufre par voie humide (ISO 12687:1996)

Metallische Überzüge - Prüfung der Porosität - Naß-Schwefelverfahren (mit Schwefelblüte) (ISO 12687:1996)

This European Standard was approved by CEN on 26 February 1998.

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 Central Secretariat 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 Central Secretariat 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, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Foreword

The text of the International Standard from Technical Committee ISO/TC 107 "Metallic and other inorganic coatings" of the International Organization for Standardization (ISO) has been taken over as an European Standard 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 September 1998, and conflicting national standards shall be withdrawn at the latest by September 1998.

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, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 12687:1996 has been approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZA (normative).

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Annex ZA (normative)
Normative references to international publications
with their relevant European publications

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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 3696	1987	Water for analytical laboratory use - Specification and test methods	EN ISO 3696	1995

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INTERNATIONAL
STANDARD

ISO
12687

First edition
1996-12-15

**Metallic coatings — Porosity tests —
Humid sulfur (flowers of sulfur) test**

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Revêtements métalliques — Essais de porosité — Essai à la fleur de soufre par voie humide

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Reference number
ISO 12687:1996(E)

ISO 12687:1996(E)**Foreword**

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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.

International Standard ISO 12687 was prepared by Technical Committee ISO/TC 107, *Metallic and other inorganic coatings*, Subcommittee SC 7, *Corrosion tests*.

Annexes A and B of this International Standard are for information only.

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Metallic coatings — Porosity tests — Humid sulfur (flowers of sulfur) test

1 Scope

This International Standard specifies a method of revealing discontinuities and porosity in metallic coatings, where they penetrate the coating layer or layers down to a silver, copper or copper-alloy substrate.

This method is especially useful for coatings consisting of single or combined layers of any coating that does not significantly tarnish in a reduced-sulfur atmosphere, such as gold, nickel, tin, tin-lead palladium and their alloys.

This test method is designed to show whether or not the coating meets the requirement concerning an acceptable porosity level specified by the user. (The value specified is usually determined by user's experience to be acceptable for the intended application.)

Recent reviews of porosity testing and test methods can be found in the literature [1], [2]. An ISO general guide to porosity tests for metallic and other inorganic coatings is available as ISO 10308:1995, *Metallic coatings — Review of porosity tests*.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 2079:1981, *Surface treatment and metallic coatings — General classification of terms*.

ISO 2080:1981, *Electroplating and related processes — Vocabulary*.

ISO 3696:1987, *Water for analytical laboratory use — Specification and test methods*.

3 Definitions

For the purposes of this International Standard, the following definitions apply (other relevant definitions can be found in ISO 2079 and ISO 2080).

3.1 corrosion products: Chemical products, derived from the substrate that usually protrude from the surface at discontinuities. The chemical reaction products form during the test and can be readily examined after the test exposure. They cannot be readily removed by mild air dusting [see clause 10, item b) 2].