



SLOVENSKI STANDARD

SIST EN ISO 2064:2000

01-december-2000

Kovinske in druge anorganske prevleke - Definicije in pravila v zvezi z meritvami debeline (ISO 2064:1996)

Metallic and other inorganic coatings - Definitions and conventions concerning the measurement of thickness (ISO 2064:1996)

Metallische und andere anorganische Schichten - Definitionen und Festlegungen, die die Messung der Schichtdicke betreffen (ISO 2064:1980)

Revetements métalliques et autres revêtements non organiques - Définitions et principes concernant le mesurage de l'épaisseur (ISO 2064:1980)

<https://standards.iteh.ai/catalog/standards/sist/09381d74-d0bd-4684-b2fc-8c2ea56d1b7c/sist-en-iso-2064-2000>

Ta slovenski standard je istoveten z: EN ISO 2064:2000

ICS:

25.220.40 Kovinske prevleke Metallic coatings

SIST EN ISO 2064:2000 en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 2064

March 2000

ICS 25.220.30, 25.220.40

Supersedes EN ISO 2064:1994

English version

Metallic and other inorganic coatings - Definitions and conventions concerning the measurement of thickness (ISO 2064:1996)

Revêtements métalliques et autres revêtements inorganiques - Définitions et principes concernant le mesurage de l'épaisseur (ISO 2064:1996)

Metallische und andere anorganische Schichten - Definitionen und Festlegungen, die die Messung der Schichtdicke betreffen (ISO 2064:1996)

This European Standard was approved by CEN on 24 January 2000.

CEN members are bound to comply with the CEN/GENELEC 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

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 replaces EN ISO 2064:1994.

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 2000, and conflicting national standards shall be withdrawn at the latest by September 2000.

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 2064:1996 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 1463	1982	Metallic and oxide coatings - Measurement of coating thickness - Microscopical method	EN ISO 1463	1994

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INTERNATIONAL STANDARD

**ISO
2064**

Third edition
1996-10-01

Metallic and other inorganic coatings — Definitions and conventions concerning the measurement of thickness

iTeh STANDARD PREVIEW

Revêtements métalliques et autres revêtements inorganiques — Définitions et principes concernant le mesurage de l'épaisseur

[SIST EN ISO 2064:2000](https://standards.iteh.ai/catalog/standards/sist/09381d74-d0bd-4684-b2fc-8c2ea56d1b7c/sist-en-iso-2064-2000)

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Reference number
ISO 2064:1996(E)

ISO 2064:1996(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 2064 was prepared by Technical Committee ISO/TC 107, *Metallic and other inorganic coatings*, Subcommittee SC 2, *Methods of inspection and coordination of test methods*.

This third edition cancels and replaces the second edition (ISO 2064:1980), of which it constitutes a technical revision.

<https://standards.iteh.ai/catalog/standards/sist/09381d74-d0bd-4684-b2fc-8c2ea56d1b7c/sist-en-iso-2064-2000>

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Introduction

An important requirement of most coating specifications is that the coating have a thickness not less than a given value (and in a few cases not greater than a given value). The method to be used for measuring the thickness of a particular coating is laid down in the coating specification.

The main purpose of this International Standard is to define exactly what is meant by the term “minimum thickness” when used in specifications for metallic and related coatings. In this context, the minimum thickness is defined as a local thickness over a small area.

With some methods, for example the microscopical method, ISO 1463, it is possible to detect appreciable variations in thickness across extremely small areas (for example pits or cracks) which might be considered as places where the specified minimum thickness has not been achieved. However, with other test methods (for example the coulometric method, ISO 2177:1985, *Metallic coatings — Measurement of coating thickness — Coulometric method by anodic dissolution*, or various non-destructive methods), such minute local variations in thickness cannot be detected. Therefore, the only practicable definition of minimum thickness is one that allows comparable results to be obtained by any of the approved test methods. Hence the minimum thickness should be a local thickness over an area that is as small as practicable, but not too small to accommodate any of the specified test methods. These areas are termed “reference areas” and are often large enough to accommodate a number of separate measurements by the chosen method. In order to obtain consistent results, especially with non-destructive tests, the mean of the measurements of such tests on the reference area should be taken as the local thickness.

In practice, it is usually permissible to test the coating at any place on the significant surface in order to find the minimum thickness on an article. Articles are usually tested at areas where the coating may be expected to be thinnest and so the definition of minimum thickness is the lowest value of local thickness (as defined in clause 3) found by the chosen method.

In the case of some coatings, such as hot-dipped and sprayed metal coatings, the coating specifications may call for compliance with a minimum local or an average thickness, or both. These may differ from the parameters defined in this International Standard and the relevant product specifications should be consulted.