



**SLOVENSKI STANDARD**  
**SIST EN ISO 7384:1999**

**01-oktober-1999**

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**Korozijski preskus v umetni atmosferi - Splošni pogoji (ISO 7384:1986)**

Corrosion test in artificial atmosphere - General requirements (ISO 7384:1986)

Korrosionsprüfungen in künstlicher Atmosphäre - Allgemeine Anforderungen (ISO 7384:1986)

Essai de corrosion en atmosphère artificielle - Prescriptions générales (ISO 7384:1986)

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**Ta slovenski standard je istoveten z: EN ISO 7384:1995**

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**ICS:**

77.060

Korozija kovin

Corrosion of metals

**SIST EN ISO 7384:1999**

**en**

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EUROPEAN STANDARD

EN ISO 7384

NORME EUROPÉENNE

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Descriptors: Metals, alloys, metal coatings, non metal coatings, tests, corrosion tests, laboratory tests

English version

**Corrosion test in artificial atmosphere - General requirements (ISO 7384:1986)**Essai de corrosion en atmosphère artificielle  
- Prescriptions générales (ISO 7384:1986)Korrosionsprüfungen in künstlicher Atmosphäre  
- Allgemeine Anforderungen (ISO 7384:1986)

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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.

The European Standards exist 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.

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**CEN**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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Ref. No. EN ISO 7384:1995 E

## Foreword

This European Standard has been taken over by the Technical Committee CEN/TC 262 "Protection of metallic materials against corrosion" from the work of ISO/TC 107 "Metallic and other inorganic coatings" of the International Organization for Standardization (ISO).

This document was submitted to the formal vote and was adopted by CEN as a European Standard.

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 1995, and conflicting national standards shall be withdrawn at the latest by July 1995.

In accordance with the CEN/CENELEC Internal Regulations, following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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### Endorsement notice

The text of the International Standard ISO 7384:1986 has been approved by CEN as a European Standard without any modification.



**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 (including amendments).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 1456	1988	Metallic coatings - Electrodeposited coatings of nickel plus chromium and of copper plus nickel plus chromium		
ISO 1458	1988	Metallic coatings - Electrodeposited coatings of nickel		
ISO 1461	1973	Metallic coatings - Hot dip galvanised coatings on ferrous materials - Determination of the mass per unit area - Gravimetric method		
ISO 1462	1973	Metallic coatings - Coatings other than those anodic to the basis metal - Accelerated corrosion tests - Method for the evaluation of the results	EN ISO 1462	1995
ISO 2081	1986	Metallic coatings - Electroplated coatings of zinc on iron or steel		
ISO 2082	1986	Metallic coatings - Electroplated coatings of cadmium on iron or steel		
ISO 3768	1976	Metallic coatings - Neutral salt spray test (NSS test)		
ISO 3769	1976	Metallic coatings - Acetic acid salt spray test (ASS test)		
ISO 3770	1976	Metallic coatings - Copper accelerated acetic acid salt spray test (CASS test)		
ISO 4536	1985	Metallic and non-organic coatings on metallic substrates - Saline droplets corrosion test (SD test)	EN ISO 4536	1995
ISO 4540	1980	Metallic coatings - Coatings cathodic to the substrate - Rating of electroplated test specimens subjected to corrosion tests		
ISO 4623	1984	Paints and varnishes - Filiform corrosion test on steel		
ISO 8407	1991	Metals and alloys - Procedure for removal of corrosion products from corrosion test specimens		

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International Standard



7384

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## Corrosion tests in artificial atmosphere — General requirements

*Essais de corrosion en atmosphère artificielle — Prescriptions générales*

First edition — 1986-12-15

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Ref. No. ISO 7384-1986 (E)

Descriptors : metals, alloys, metal coatings, non metallic coatings, tests, corrosion tests, laboratory tests.

## 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7384 was prepared by Technical Committee ISO/TC 156, *Corrosion of metals and alloys*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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# Corrosion tests in artificial atmosphere — General requirements

## 1 Scope and field of application

This International Standard specifies general requirements for the specimens, apparatus and procedure of corrosion tests in artificial atmospheres. It applies to metals and alloys with and without permanent corrosion protection or temporary corrosion protection.

The requirements specified in this International Standard are intended for application in other International Standards dealing with corrosion tests in artificial atmospheres as well as in accelerated methods of test and the construction of new chambers.

## 2 References

ISO 1456, *Metallic coatings — Electroplated coatings of nickel plus chromium.*

ISO 1458, *Metallic coatings — Electroplated coatings of nickel.*

ISO 1461, *Metallic coatings — Hot dip galvanized coatings on fabricated ferrous products — Requirements.*

ISO 1462, *Metallic coatings — Coatings other than those anodic to the basis metals — Accelerated corrosion tests — Method for the evaluation of the results.*

ISO 2081, *Metallic coatings — Electroplated coatings of zinc on iron or steel.*

ISO 2082, *Metallic coatings — Electroplated coatings of cadmium on iron or steel.*

ISO 3768, *Metallic coatings — Neutral salt spray test (NSS test).*

ISO 3769, *Metallic coatings — Acetic acid salt spray test (ASS test).*

ISO 3770, *Metallic coatings — Copper accelerated acetic acid salt spray test (CASS test).*

ISO 4536, *Metallic and non-organic coatings on metallic substrates — Saline droplets corrosion test (SD test).*

ISO 4540, *Metallic coatings — Coatings cathodic to the substrate — Rating of electroplated test specimens subjected to corrosion tests.*

ISO 4623, *Paints and varnishes — Filiform corrosion test on steel.*

ISO 8407, *Metals and alloys — Procedures for removal of corrosion products from corrosion test specimens.*<sup>1)</sup>

## 3 Definition

For the purpose of this International Standard, the following definition applies.

**corrosion tests in artificial atmospheres:** Laboratory tests conducted in air, in the presence of intensifying factors influencing corrosion of metallic materials and alloys with and without permanent or temporary corrosion protection.

NOTE — Corrosion tests in artificial atmospheres attempt to reproduce corrosion effects under service conditions, such as atmospheric or other environments.

## 4 Principle

**4.1** Acceleration of the processes is achieved by intensifying such factors as temperature, relative humidity, condensation of the moisture and corrosive agents (sulfur dioxide, chlorides, acids, ammonia, hydrogen sulfide, etc.).

**4.2** The following shall be specified in the test programme:

- the purpose of the test;
- the nature of the tested metals, alloys or means of corrosion protection (chemical composition, thickness, state of the specimen surface);
- the method of test: operating conditions, total duration of the test, position and eventually permutation of the test specimens, frequency of removal and examination of specimens during the test, number of specimens removed and number of control specimens;
- the calibration of the corrosivity of the atmosphere of the test chamber regardless of specimen orientation in the chamber;
- the criteria and methods of evaluation of the test results.

1) At present at the stage of draft.