



SLOVENSKI STANDARD
SIST EN ISO 11130:2000
01-december-2000

Corrosion of metals and alloys - Alternate immersion test in salt solution (ISO 11130:1999)

Korrosion von Metallen und Legierungen - Wechseltauchprüfung in Salzlösung (ISO 11130:1999)

Corrosion des métaux et alliages - Essai en immersions alternées en solution saline (ISO 11130:1999)

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Ta slovenski standard je istoveten z: EN ISO 11130:1999

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ICS:

77.060

Korozija kovin

Corrosion of metals

SIST EN ISO 11130:2000

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 11130

August 1999

ICS 77.060

English version

Corrosion of metals and alloys - Alternate immersion test in salt
solution (ISO 11130:1999)

Corrosion des métaux et alliages - Essai en immersions
alternées en solution saline (ISO 11130:1999)

Korrosion von Metallen und Legierungen -
Wechseltauchprüfung in Salzlösung (ISO 11130:1999)

This European Standard was approved by CEN on 16 July 1999.

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

Foreword

The text of the International Standard ISO 11130:1999 has been prepared by Technical Committee ISO/TC 156 "Corrosion of metals and alloys" in collaboration with 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 February 2000, and conflicting national standards shall be withdrawn at the latest by February 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.

NOTE FROM CEN/CS: The foreword is susceptible to be amended on reception of the German language version. The confirmed or amended foreword, and when appropriate, the normative annex ZA for the references to international publications with their relevant European publications will be circulated with the German version.

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The text of the International Standard ISO 11130:1999 was approved by CEN as a European Standard without any modification. [SIST EN ISO 11130:2000](https://standards.iteh.ai/catalog/standards/sist/3c2b5bc6-61d2-4d77-9d07-6243d789cb6/sist-en-iso-11130-2000)

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

APPROVED AND FORWARDED
BY THE TECHNICAL SECRETARIAT
OF CEN ON BEHALF OF ALL
MEMBER STANDARDS ORGANIZATIONS

..... 1999
EN ISO 11130:1999

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 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 4540	1980	Metallic coatings - Coatings cathodic to the substrate - Rating of electroplated test specimens subjected to corrosion tests	EN ISO 4540	1995
ISO 7539-1	1987	Corrosion of metals and alloys - Stress corrosion testing - Part 1: General guidance on testing procedures	EN ISO 7539-1	1995

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INTERNATIONAL
STANDARD

ISO
11130

First edition
1999-08-15

**Corrosion of metals and alloys — Alternate
immersion test in salt solution**

*Corrosion des métaux et alliages — Essai en immersions alternées
en solution saline*

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Reference number
ISO 11130:1999(E)

ISO 11130:1999(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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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 11130 was prepared by Technical committee ISO/TC 156, *Corrosion of metals and alloys*.

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

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International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland
Internet iso@iso.ch

Printed in Switzerland

Introduction

Corrosion of metals is influenced by factors which may vary significantly with environmental conditions. Therefore, corrosion resistance determined for metals during alternate immersion testing described in this International Standard may vary greatly with the test solution selected, the temperature during immersion and the temperature and humidity during the drying periods of test.

Consequently, the result of an alternate immersion corrosion test should not be taken as indicative of the corrosion resistance of metal tested in all the different service environments in which the metal may be used.

Nevertheless, results obtained by the method described in this International Standard may indicate the relative corrosion resistance of different metals under in-service conditions, particularly when the service environment is similar to the test solution selected. The method may also be used to test metals under an applied tensile stress.

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Corrosion of metals and alloys — Alternate immersion test in salt solution

1 Scope

The purpose of this International Standard is to define a method of assessing the corrosion resistance of metals by an alternate immersion test in salt solution, with or without applied stress.

The test is particularly suitable for quality control during the manufacture of metals including aluminium alloys and ferrous materials, and also for assessment purposes during alloy development.

Depending upon the chemical composition of the test solution, the test may be used to simulate the corrosive effects of marine splash zones, de-icing fluids and acid salt environments.

The term "metal" as used in this International Standard includes metallic materials with or without corrosion protection.

The alternate immersion test applies to:

- metals and their alloys, [SIST EN ISO 11130:2000](https://standards.iteh.ai/catalog/standards/sist/3c2b5bc6-61d2-4d77-9d07-6243d7f9cb6/sist-en-iso-11130-2000)
- certain metallic coatings (anodic and cathodic with respect to the substrate);
- certain conversion coatings;
- certain anodic oxide coatings;
- organic coatings on metals.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 1462:1973, *Metallic coatings — Coatings other than those anodic to the basis metal — Accelerated corrosion tests — Method for the evaluation of the results.*

ISO 4540:1980, *Metallic coatings — Coatings cathodic to the substrate — Rating of electroplated test specimens subjected to corrosion tests.*

ISO 7539-1:1987, *Corrosion of metals and alloys — Stress corrosion testing — Part 1: General guidance on testing procedures.*