



SLOVENSKI STANDARD SIST EN ISO 6509:1999

01-oktober-1999

Korozija kovin in zlitin - Ugotavljanje odpornosti razcinkanja medi (ISO 6509:1981)

Corrosion of metals and alloys - Determination of dezincification resistance of brass (ISO 6509:1981)

Korrosion von Metallen und Legierungen - Bestimmung der Entzinkungsbeständigkeit von Kupfer-Zink-Legierungen (ISO 6509:1981)

Corrosion des métaux et alliages - Détermination de la résistance a la dézincification du laiton (ISO 6509:1981)

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Ta slovenski standard je istoveten z: **EN ISO 6509:1995**

ICS:

77.060

Korozija kovin

Corrosion of metals

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en

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EUROPEAN STANDARD

EN ISO 6509

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 1995

ICS 77.060

Descriptors: corrosion, metals, alloys, tests, determination, corrosion resistance, brasses

English version

**Corrosion of metals and alloys - Determination of
dezincification resistance of brass
(ISO 6509:1981)**

Corrosion des métaux et alliages -
Détermination de la résistance à la
dezincification du laiton (ISO 6509:1981)

Korrosion von Metallen und Legierungen -
Bestimmung der Entzinkungsbeständigkeit von
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This European Standard was approved by CEN on 1995-01-13. 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.

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.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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

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 August 1995, and conflicting national standards shall be withdrawn at the latest by August 1995.

According to the CEN/CENELEC Internal Regulations, the 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, United Kingdom.

Endorsement notice

The text of the International Standard ISO 6509:1981 was approved by CEN as a European Standard without any modification.

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International Standard



6509

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Corrosion of metals and alloys — Determination of dezincification resistance of brass

Corrosion des métaux et alliages — Détermination de la résistance à la dézincification du laiton

First edition — 1981-07-01

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UDC 669.35 : 620.193.2

Ref. No. ISO 6509-1981 (E)

Descriptors : corrosion, metals, alloys, tests, determination, corrosion resistance, brasses.

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

International Standard ISO 6509 was developed by Technical Committee ISO/TC 156, *Corrosion of metals and alloys*, and was circulated to the member bodies in February 1980.

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It has been approved by the member bodies of the following countries:

Australia	Finland	Portugal
Austria	France	Romania
Belgium	Germany, F.R.	South Africa, Rep. of
Brazil	Hungary	Spain
Bulgaria	India	Sweden
Canada	Mexico	United Kingdom
China	Norway	USA
Egypt, Arab Rep. of	Poland	USSR

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The member body of the following country expressed disapproval of the document on technical grounds :

Czechoslovakia

Corrosion of metals and alloys – Determination of dezincification resistance of brass

1 Scope and field of application

This International Standard specifies a method for the determination of the dezincification resistance of brass exposed to fresh or saline waters.

The method may be used for control or research purposes, but the field of application is not specified.

2 Principle

Exposure of test pieces to copper(II) chloride solution followed by microscopic examination.

3 Reagents and materials

Use only reagents of recognized analytical grade and distilled water or water of equivalent purity.

3.1 Copper(II) chloride, 1 % (*m/m*) solution, freshly prepared.

Dissolve 12,7 g of copper(II) chloride dihydrate ($\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$) in water and make up the volume to 1 000 ml.

3.2 Phenolic resins, or other non-conducting material with similar properties, for embedding the test pieces.

3.3 Ethanol, for cleaning the test pieces.

4 Apparatus (see figure 1)

4.1 Beaker, of glass, covered with suitable plastic foil, for example polyethylene, secured with elastic thread or another method of sealing using non-metallic material.

4.2 Thermostatically controlled water or oil bath, capable of being controlled at 75 ± 5 °C.

4.3 Optical microscope, with a scale.

5 Test pieces

5.1 The test pieces shall be taken in such a way, for example by sawing and grinding with light pressure, that the properties of the materials are unaffected.

5.2 Not less than two test pieces shall be taken from each sample supplied for testing.

5.2.1 For forgings and castings, at least one test piece shall be taken from the area with the thinnest section and at least one from the area with the thickest section.

5.2.2 In the case of materials with a specific extrusion or rolling direction, for example plates or bars, surfaces both parallel and perpendicular to the extrusion or rolling direction shall be tested. In addition, in the case of rods, all test pieces, whether transverse or longitudinal, shall be cut in such a way as to include points midway between the axis and the periphery.

5.3 The area of each test piece to be exposed shall be approximately 100 mm². If the size of the component or the cross-section of the rod to be tested is too small to provide test areas of this size, the largest possible test area shall be taken.

6 Preparation of test pieces

6.1 The test pieces shall be embedded in the phenolic resin (3.2), and the test surfaces ground using wet abrasive paper, finishing with 500 grade or finer. (See figure 2.)

6.2 The test surfaces shall be cleaned with the ethanol (3.3) prior to testing.

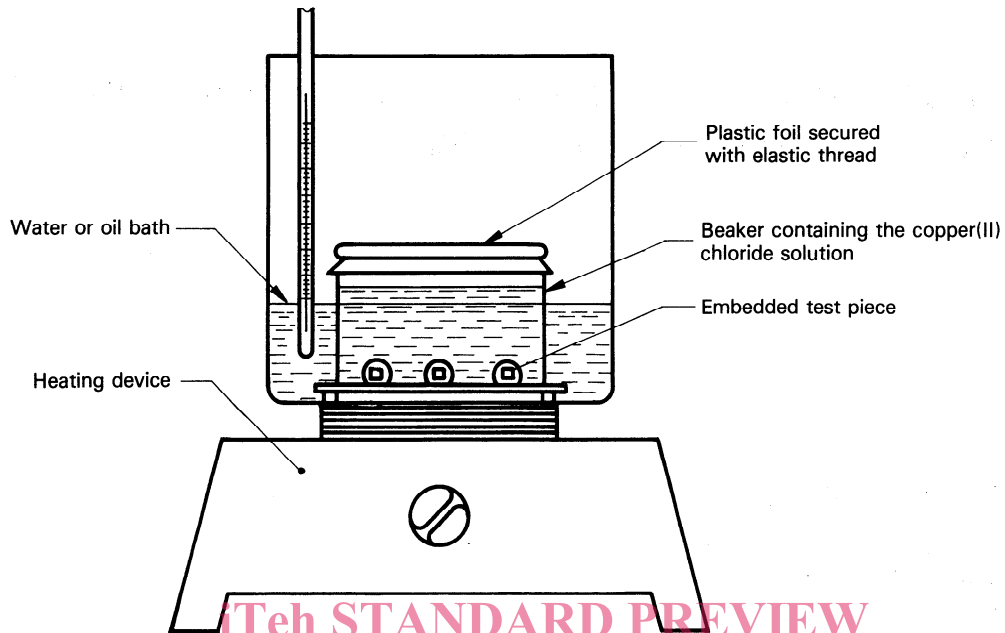


Figure 1 – Example of test apparatus

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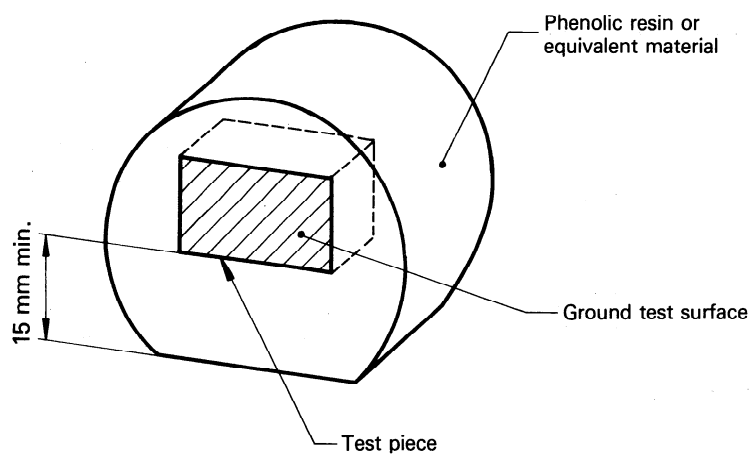


Figure 2 – Embedded test piece with one test surface