



SLOVENSKI STANDARD
SIST EN ISO 3892:2002

01-marec-2002

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SIST EN ISO 3892:1999

Reakcijske prevleke na kovinskih materialih - Ugotavljanje mase prevlek na enoto površine - Gravimetrijske metode (ISO 3892:2000)

Conversion coatings on metallic materials - Determination of coating mass per unit area - Gravimetric methods (ISO 3892:2000)

Konversionsschichten auf metallischen Werkstoffen - Bestimmung der flächenbezogenen Masse der Schichten Gravimetrische Verfahren (ISO 3892:2000)

Couches de conversion sur matériaux métalliques - Détermination de la masse par unité de surface - Méthodes gravimétriques (ISO 3892:2000)

Ta slovenski standard je istoveten z: EN ISO 3892:2001

ICS:

25.220.20 Površinska obdelava Surface treatment

SIST EN ISO 3892:2002 **en**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 3892

July 2001

ICS 25.220.20

Supersedes EN ISO 3892:1994

English version

**Conversion coatings on metallic materials - Determination of
coating mass per unit area - Gravimetric methods (ISO
3892:2000)**

Couches de conversion sur matériaux métalliques -
Détermination de la masse par unité de surface - Méthodes
gravimétriques (ISO 3892:2000)

Konversionsschichten auf metallischen Werkstoffen -
Bestimmung der Masse der Schichten pro Flächeneinheit -
Gravimetrische Verfahren (ISO 3892:2000)

This European Standard was approved by CEN on 4 June 2001.

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 Management Centre 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 Management Centre 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

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN ISO 3892:2001 (E)**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 January 2002, and conflicting national standards shall be withdrawn at the latest by January 2002.

This European Standard supersedes EN ISO 3892:1994.

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 CMC 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.

Endorsement notice

The text of the International Standard ISO 3892:2000 has been approved by CEN as a European Standard without any modification.

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INTERNATIONAL STANDARD

**ISO
3892**

Second edition
2000-06-01

Conversion coatings on metallic materials — Determination of coating mass per unit area — Gravimetric methods

*Couches de conversion sur matériaux métalliques — Détermination de la
masse de revêtement par unité de surface — Méthodes gravimétriques*

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Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 734 10 79
E-mail copyright@iso.ch
Web www.iso.ch

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Contents

Page

Foreword.....	iv
1 Scope	1
2 Apparatus	1
3 Test pieces	2
4 Reagents and procedures.....	2
4.1 General.....	2
4.2 Phosphate coatings on iron and steel.....	2
4.3 Phosphate coatings on zinc and cadmium.....	3
4.4 Crystalline phosphate coatings on aluminium and its alloys.....	3
4.5 Chromate coatings on zinc and cadmium	4
4.6 Chromate and amorphous phosphate coatings on aluminium and its alloys	4
5 Expression of results	5
5.1 Calculation.....	5
5.2 Measurement uncertainty	5

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ISO 3892:2000(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.

Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 3892 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 second edition cancels and replaces the first edition (ISO 3892:1980), which has been technically revised.

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Conversion coatings on metallic materials — Determination of coating mass per unit area — Gravimetric methods

WARNING — The materials, operations and equipment listed in this International Standard may be hazardous if suitable precautions are not observed. This International Standard does not purport to address all of the safety problems associated with its use. It is the responsibility of the user of this International Standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

1 Scope

This International Standard specifies gravimetric methods for determining the coating mass per unit area of conversion coatings on metallic materials.

The methods are applicable to

- phosphate coatings on iron and steel;
- phosphate coatings on zinc and cadmium;
- phosphate coatings on aluminium and its alloys;
- chromate coatings on zinc and cadmium;
- chromate coatings on aluminium and its alloys.

The methods are applicable only to conversion coatings that are free from any supplementary coating such as oil, water or solvent-based polymers, or wax.

The methods do not indicate the presence of bare spots or sites with thicknesses lower than the specified minimum in the measuring areas. In addition, the single values obtained from each measuring area is the mean thicknesses over that area. There can be no further mathematical analysis of this single value, e.g. for statistical control purposes.

2 Apparatus

- 2.1 Vessel**, of glass or other appropriate material, in which the conversion coatings can be dissolved.
- 2.2 Analytical balance**, capable of weighing to the nearest 0,1 mg, for weighing the test pieces under examination before and after dissolution of the conversion coatings.
- 2.3 Electrical equipment**, for electrolytic dissolution (for chromate coatings on zinc and cadmium).