



# SLOVENSKI STANDARD SIST EN ISO 3815-2:2005

01-oktober-2005

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Zinc and zinc alloys - Part 2: Analysis by inductively coupled plasma optical emission spectrometry (ISO 3815-2:2005)

Zink und Zinklegierungen - Teil 2: Optische Emissionsspektrometrie mit induktiv gekoppelter Plasmaanregung (ISO 3815-2:2005)

Zinc et alliages de zinc - Partie 2: Analyse par spectrométrie d'émission optique avec source à plasma à couplage inductif (ISO 3815-2:2005)

Ta slovenski standard je istoveten z: EN ISO 3815-2:2005

## ICS:

77.120.60	Svinec, cink, kositer in njihove zlitine	Lead, zinc, tin and their alloys
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SIST EN ISO 3815-2:2005

en

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN ISO 3815-2**

July 2005

ICS 77.120.60; 77.040.30

Supersedes EN 12019:1997

English Version

## Zinc and zinc alloys - Part 2: Analysis by inductively coupled plasma optical emission spectrometry (ISO 3815-2:2005)

Zinc et alliages de zinc - Partie 2: Analyse par spectrométrie d'émission optique avec source à plasma à couplage inductif (ISO 3815-2:2005)

Zink und Zinklegierungen - Teil 2: Optische Emissionsspektrometrie mit induktiv gekoppelter Plasmaanregung (ISO 3815-2:2005)

This European Standard was approved by CEN on 12 May 2005.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, 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 3815-2:2005 (E)****Foreword**

This document (EN ISO 3815-2:2005) has been prepared by Technical Committee ISO/TC 18 "Zinc and zinc alloys" in collaboration with Technical Committee CEN/TC 209 "Zinc and zinc alloys", the secretariat of which is held by AFNOR.

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 2006, and conflicting national standards shall be withdrawn at the latest by January 2006.

This document supersedes EN 12019:1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

**Endorsement notice**

The text of ISO 3815-2:2005 has been approved by CEN as EN ISO 3815-2:2005 without any modifications.

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# INTERNATIONAL STANDARD

**ISO**  
**3815-2**

First edition  
2005-07-15

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## Zinc and zinc alloys —

Part 2:

### Analysis by inductively coupled plasma optical emission spectrometry

*Zinc et alliages de zinc —  
Partie 2: Analyse par spectrométrie d'émission optique avec source  
à plasma à couplage inductif*

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## 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 2.

The main task of technical committees is to prepare International Standards. 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 document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 3815-2 was prepared by Technical Committee ISO/TC 18, *Zinc and zinc alloys*, Subcommittee SC 1, *Methods of sampling and analysis of zinc and zinc alloys*.

This first edition of ISO 3815-2 cancels and replaces ISO 3815:1976, which has been technically revised.

ISO 3815 consists of the following parts, under the general title *Zinc and zinc alloys*:

- *Part 1: Analysis of solid samples by optical emission spectrometry*
- *Part 2: Analysis by inductively coupled plasma optical emission spectrometry*

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# Zinc and zinc alloys —

## Part 2: Analysis by inductively coupled plasma optical emission spectrometry

### 1 Scope

This part of ISO 3815 specifies analytical methods for determining the chemical composition of zinc and zinc alloys in accordance with ISO 301 and ISO 752 by inductively coupled plasma optical emission spectrometry.

This part of ISO 3815 includes provisions for preparation of test solutions and calibration solutions for zinc and zinc alloys.

The ranges specified for each method can be extended and/or adapted for determinations of low concentrations.

This part of ISO 3815 can be applied to other elements (e.g. Ni, Cr and Ti). However, such results will need to be carefully checked by taking into account the interferences, the sensitivity, the resolution and the linearity criteria for each instrument and each wavelength.

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### 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 301, *Zinc alloy ingots intended for casting*

ISO 752, *Zinc ingots*

ISO 1169, *Zinc alloys — Determination of aluminium content — Volumetric method*

ISO 20081:—<sup>1)</sup>, *Zinc and zinc alloys — Method of sampling — Specifications*

EN 988, *Zinc and zinc alloys — Specifications for rolled flat products for building*

EN 12844, *Zinc and zinc alloys — Castings — Specifications*

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1) To be published.