



# SLOVENSKI STANDARD SIST EN ISO 3815-1:2005

01-julij-2005

BUXca Yý U.  
SIST EN 12019:2000

7 ]b\_ ]b`W]b\_cj Y`n`h]bY`É`%`XY. `5 bU]nY`fXb]` j ncfW]j `n`cdh] bc`Ya ]g]`g\_c  
gdY`fca Yf]`c`fIGC`" , %`!`%&\$`\$) Ł

Zinc and zinc alloys - Part 1: Analysis of solid samples by optical emission spectrometry  
(ISO 3815-1:2005)

iTeh STANDARD PREVIEW

(standards.iteh.ai)

Zink und Zinklegierungen - Teil 1: Optische Emissionsspektrometrie an festen Proben  
(ISO 3815-1:2005)

[SIST EN ISO 3815-1:2005](#)

<https://standards.iteh.ai/catalog/standards/sist/57acf985-1852-43f4-adc9-99038a4f5e3e/iso-3815-1:2005>

Zinc et alliages de zinc - Partie 1: Analyse d'échantillons massifs par spectrométrie  
d'émission optique (ISO 3815-1:2005)

Ta slovenski standard je istoveten z: EN ISO 3815-1:2005

## ICS:

77.120.60	Svinec, cink, kositer in njihove zlitine	Lead, zinc, tin and their alloys
-----------	--	----------------------------------

SIST EN ISO 3815-1:2005

en

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN ISO 3815-1:2005](https://standards.iteh.ai/catalog/standards/sist/57acf985-1852-43f4-adc9-59638a6a877d/sist-en-iso-3815-1-2005)

<https://standards.iteh.ai/catalog/standards/sist/57acf985-1852-43f4-adc9-59638a6a877d/sist-en-iso-3815-1-2005>

EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN ISO 3815-1**

May 2005

ICS 77.120.60

Supersedes EN 12019:1997

English version

## Zinc and zinc alloys - Part 1: Analysis of solid samples by optical emission spectrometry (ISO 3815-1:2005)

Zinc et alliages de zinc - Partie 1: Analyse d'échantillons massifs par spectrométrie d'émission optique (ISO 3815-1:2005)

Zink und Zinklegierungen - Teil 1: Optische Emissionsspektrometrie an festen Proben (ISO 3815-1:2005)

This European Standard was approved by CEN on 12 April 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.

[SIST EN ISO 3815-1:2005](https://standards.iteh.ai/catalog/standards/sist/57acf985-1852-43f4-adc9-59638a6a877d/sist-en-iso-3815-1-2005)

<https://standards.iteh.ai/catalog/standards/sist/57acf985-1852-43f4-adc9-59638a6a877d/sist-en-iso-3815-1-2005>



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

**EN ISO 3815-1:2005 (E)****Foreword**

This document (EN ISO 3815-1:2005) 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 November 2005, and conflicting national standards shall be withdrawn at the latest by November 2005.

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 3815-1:2005 has been approved by CEN as EN ISO 3815-1:2005 without any modifications.

iteh STANDARD PREVIEW  
(standards.iteh.ai)

[SIST EN ISO 3815-1:2005](https://standards.iteh.ai/catalog/standards/sist/57acf985-1852-43f4-adc9-59638a6a877d/sist-en-iso-3815-1-2005)

<https://standards.iteh.ai/catalog/standards/sist/57acf985-1852-43f4-adc9-59638a6a877d/sist-en-iso-3815-1-2005>

# INTERNATIONAL STANDARD

**ISO**  
**3815-1**

First edition  
2005-05-01

---

---

## Zinc and zinc alloys —

Part 1:

### Analysis of solid samples by optical emission spectrometry

*Zinc et alliages de zinc —*

*Partie 1: Analyse d'échantillons massifs par spectrométrie d'émission  
optique*

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN ISO 3815-1:2005](https://standards.iteh.ai/catalog/standards/sist/57acf985-1852-43f4-adc9-59638a6a877d/sist-en-iso-3815-1-2005)

<https://standards.iteh.ai/catalog/standards/sist/57acf985-1852-43f4-adc9-59638a6a877d/sist-en-iso-3815-1-2005>



Reference number  
ISO 3815-1:2005(E)

© ISO 2005

**ISO 3815-1:2005(E)****PDF disclaimer**

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

## iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN ISO 3815-1:2005](https://standards.iteh.ai/catalog/standards/sist/57acf985-1852-43f4-adc9-59638a6a877d/sist-en-iso-3815-1-2005)

<https://standards.iteh.ai/catalog/standards/sist/57acf985-1852-43f4-adc9-59638a6a877d/sist-en-iso-3815-1-2005>

© ISO 2005

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

## 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 3815-1 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 3815-1 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*  
SIST EN ISO 3815-1:2005  
<https://standards.iteh.ai/catalog/standards/sist/57ac1985-1852-43f4-adc9-59638a6a877d/sist-en-iso-3815-1-2005>
- *Part 2: Analysis by inductively coupled plasma optical emission spectrometry*

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN ISO 3815-1:2005](#)

<https://standards.iteh.ai/catalog/standards/sist/57acf985-1852-43f4-adc9-59638a6a877d/sist-en-iso-3815-1-2005>



# Zinc and zinc alloys —

## Part 1: Analysis of solid samples by 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 optical emission spectrometry.

This part of ISO 3815 includes recommendations for preparation of test pieces from zinc and zinc alloys.

### 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 752:2004, *Zinc ingots* <https://standards.iteh.ai/catalog/standards/sist/57ac1985-1852-43f4-adc9-59638a6a877d/sist-en-iso-3815-1-2005>

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

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 301, ISO 752, ISO 20081 and the following apply.

#### 3.1

##### **optical emission spectrometry**

measurement of the intensity of electromagnetic radiation emitted by the components of a sample when excited

NOTE Each element emits radiation of well defined and specific wavelength, whose intensity is linked to its concentration.

### 4 Sampling

Sampling shall be in accordance with ISO 20081:—<sup>1)</sup>, 7.1.

---

1) To be published.