

SLOVENSKI STANDARD SIST EN ISO 15349-2:2003

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Nelegirana jekla – Določevanje ogljika v majhnih količinah – 2. del: Metoda z infrardečo absorpcijo po zgorevanju v indukcijski peči (s predgrevanjem) (ISO 15349-2:1999)

Unalloyed steel - Determination of low carbon content - Part 2: Infrared absorption method after combustion in an induction furnace (with preheating) (ISO 15349-2:1999)

Unlegierter Stahl - Bestimmung niedriger Kohlenstoffgehalte - Teil 2: Verfahren mit Infrarotabsorption nach Verbrennung im Induktionsofen (mit Vorwärmung) (ISO 15349-2:1999) (standards.iteh.ai)

Acier non allié - Détermination des faibles teneurs en carbone -4Partie 2: Méthode par absorption dans l'infrarouge aprés combustion dans un four a induction (avec préchauffage) (ISO 15349-2:1999)

Ta slovenski standard je istoveten z: EN ISO 15349-2:2003

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Chemical analysis of metals Non-alloyed steels

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en

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Unalloyed steel - Determination of low carbon content - Part 2: Infrared absorption method after combustion in an induction furnace (with preheating) (ISO 15349-2:1999)

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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.

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

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Ref. No. EN ISO 15349-2:2003 E

Foreword

The text of ISO 15349-2:1999 has been prepared by Technical Committee ISO/TC 17 "Steel" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 15349-2:2003 by Technical Committee ECISS/TC 20 "Methods of chemical analysis", the secretariat of which is held by SIS.

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of an identical text or by endorsement, at the latest by December 2003, and conflicting national standards shall be withdrawn at the latest by December 2003.

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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

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The text of ISO 15349-2:1999 has been approved by CEN as EN ISO 15349-2:2003 without any modifications.

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NOTE Normative references to International Standards are listed in Annex ZA (normative). 6edf53da7e60/sist-en-iso-15349-2-2003

EN ISO 15349-2:2003 (E)

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 (including amendments).

NOTE Where an International Publication has been modified by common modifications, indicated by (mod.), the relevant EN/HD applies.

Publication	Year	<u>Title</u>	EN	<u>Year</u>
ISO 1042	1998	Laboratory glassware - One-mark volumetric flasks	EN ISO 1042	1999
ISO 3696	iTeh 1987	Water for analytical laboratory use - Specification and test methods	EN ISO 3696	1995
ISO 14284	1996 https://standar	Steel and iron - Sampling and preparation of samples ¹⁰ for the determination and and of ist/add chemical 5-4 composition sist-en-iso-15349-2-2003	EN ISO 14284 f4f-a5f8-	2002

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INTERNATIONAL STANDARD

ISO 15349-2

First edition 1999-12-01

Unalloyed steel — Determination of low carbon content —

Part 2:

Infrared absorption method after combustion in an induction furnace iTeh (with preheating) EVIEW

Acter non allie Determination des faibles teneurs en carbone —

Partie 2: Méthode par absorption dans l'infrarouge après combustion dans un four à induction (avec préchauffage) https://standards.iteh.avcatalog.standards.sist.add63id9-6a25-4i4f-a5f8-

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Reference number ISO 15349-2:1999(E)

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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 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 15349 was prepared by Technical Committee ISO/TC 17, *Steel*, Subcommittee SC 1, *Methods of determination of chemical composition*.

ISO 15349 consists of the following parts, under the general title Unalloyed steel — Determination of low carbon content:

 Part 1: Infrared absorption method after combustion in an electric resistance furnace (by peak separation) [Technical Report]
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— Part 2: Infrared absorption method after combustion in an induction furnace (with preheating)

— Part 3: Infrared absorption method after combustion in an electric resistance furnace (with preheating) [Technical Report]

Annexes A, B and C of this part of ISO 15349 are for information only.

Unalloyed steel — Determination of low carbon content —

Part 2:

Infrared absorption method after combustion in an induction furnace (with preheating)

1 Scope

This part of ISO 15349 specifies an infrared absorption method after combustion in an induction furnace for the determination of the low carbon content in unalloyed steel.

The method is applicable to carbon contents between 0,000 3 % (m/m) and 0,010 % (m/m).

2 Normative references, 11eh STANDARD PREVIEW

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 15349. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 15349 are encouraged to investigate the possibility of applying the most recent editions of the normative document referred to applies 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 O/sist-en-iso-15349-2-2003

ISO 648:1977, Laboratory glassware — One-mark pipettes.

ISO 1042:1998, Laboratory glassware — One-mark volumetric flasks.

ISO 3696:1987, Water for analytical laboratory use — Specification and test methods.

ISO 5725-1:1994, Accuracy (trueness and precision) of measurement methods and results — Part 1: General principles and definitions.

ISO 5725-2:1994, Accuracy (trueness and precision) of measurement methods and results — Part 2: Basic method for the determination of repeatability and reproducibility of a standard measurement method.

ISO 5725-3:1994, Accuracy (trueness and precision) of measurement methods and results — Part 3: Intermediate measures of the precision of a standard measurement method.

ISO 14284:1996, Steel and iron — Sampling and preparation of samples for the determination of chemical composition.

3 Principle

Preheating of a test portion at low temperature and combustion of a test portion with accelerator at a high temperature in an induction furnace in a current of pure oxygen. Transformation of carbon into carbon dioxide and/or carbon monoxide.