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Standards

Irish Standard  
I.S. EN ISO 15351:2010

Steel and iron - Determination of nitrogen content - Thermal conductimetric method after fusion in a current of inert gas (Routine method) (ISO 15351:1999)

## I.S. EN ISO 15351:2010

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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English Version

**Steel and iron - Determination of nitrogen content - Thermal  
conductimetric method after fusion in a current of inert gas  
(Routine method) (ISO 15351:1999)**

Aciers et fontes - Dosage de l'azote - Méthode par  
conductibilité thermique après fusion sous gaz inerte  
(Méthode pratique) (ISO 15351:1999)

Stahl und Eisen - Bestimmung des Stickstoffgehaltes -  
Messung der Wärmeleitfähigkeit nach Aufschmelzen in  
strömendem Inertgas (Routineverfahren) (ISO 15351:1999)

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## **Foreword**

The text of ISO 15351:1999 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 15351:2010 by Technical Committee ECISS/TC 102 “Methods of chemical analysis for iron and steel” 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of an identical text or by endorsement, at the latest by October 2010, and conflicting national standards shall be withdrawn at the latest by October 2010.

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### **Endorsement notice**

The text of ISO 15351:1999 has been approved by CEN as a EN ISO 15351:2010 without any modification.

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I.S. EN ISO 15351:2010

# INTERNATIONAL STANDARD

# ISO 15351

First edition  
1999-12-01

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## **Steel and iron — Determination of nitrogen content — Thermal conductimetric method after fusion in a current of inert gas (Routine method)**

*Aciers et fontes — Dosage de l'azote — Méthode par conductibilité thermique après fusion sous gaz inerte (Méthode pratique)*



Reference number  
ISO 15351:1999(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.

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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.

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International Standard ISO 15351 was prepared by Technical Committee ISO/TC 17, *Steel*, Subcommittee SC 1, *Methods of determination of chemical composition*.

Annexes A, B and C of this International Standard are for information only.

# Steel and iron — Determination of nitrogen content — Thermal conductimetric method after fusion in a current of inert gas (Routine method)

## 1 Scope

This International Standard specifies a thermal conductimetric method after fusion under inert gas for the determination of nitrogen in steel and iron.

The method is applicable to nitrogen contents between 0,002 % (*m/m*) and 0,6 % (*m/m*).

## 2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents 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.

ISO Guide 31:1981, *Contents of certificates of reference materials*.

ISO Guide 35:1989, *Certification of reference materials — General and statistical principles*.

ISO 385-1:1984, *Laboratory glassware — Burettes — Part 1: General requirements*.

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 10702:1993, *Steel and iron — Determination of nitrogen content — Titrimetric method after distillation*.

ISO 10720:1997, *Steel and iron — Determination of nitrogen content — Thermal conductimetric method after fusion in a current of inert gas*.

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

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