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Steel and iron — Determination of nickel, copper or cobalt contents — Inductively coupled plasma atomic emission spectrometric method —

Part 4: Determination of cobalt content

*Aciers et fontes — Dosage du nickel, du cuivre et du cobalt — Méthode
par spectrométrie d'émission atomique avec plasma induit par haute
fréquence —*

Partie 4: Dosage du cobalt

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Reference number
ISO 13898-4:1997(E)

Foreword

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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.

International Standard ISO 13898-3 was prepared by Technical Committee ISO/TC 17, *Steel*, Subcommittee SC 1, *Methods of determination of chemical composition*.

ISO 13898 consists of the following parts, under the general title *Steel and iron — Determination of nickel, copper and cobalt contents — Inductively coupled plasma atomic emission spectrometric method*.

- Part 1: *General requirements and sample dissolution*
- Part 2: *Determination of nickel content*
- Part 3: *Determination of copper content*
- Part 4: *Determination of cobalt content*

Annexes A and B of this part of ISO 13898 are for information only.

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International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland
Internet: central@iso.ch
X.400: c=ch; a=400net; p=iso; o=iso; s=central

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Steel and iron — Determination of nickel, copper and cobalt contents — Inductively coupled plasma atomic emission spectrometric method —

Part 4: Determination of cobalt content

1 Scope

This part of ISO 13898 specifies an inductively coupled plasma atomic emission spectrometric method for the determination of cobalt content in unalloyed steel and unalloyed iron.

The method is applicable to cobalt contents between 0,001 % (*m/m*) and 0,10 % (*m/m*).

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 13898. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 13898 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

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

ISO 5725-2:1994, *Accuracy (trueness and precision) of measurement methods and results - Part 2: 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 13898-1:1997, *Steel and iron - Determination of nickel, cobalt and copper contents - Inductively coupled plasma atomic emission spectrometric method - Part 1: General requirements and sample dissolution*.

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

3 Principle

The principle is described in clause 3 of ISO 13898-1:1997.