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**Iron ores — Experimental methods for  
checking the precision of sampling, sample  
preparation and measurement**

*Minerais de fer — Méthodes expérimentales de contrôle de la fidélité de  
l'échantillonnage, de préparation des échantillons et de mesurage*



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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.

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 International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 3085 was prepared by Technical Committee ISO/TC 102, *Iron ore and direct reduced iron*, Subcommittee SC 1, *Sampling*.

This fourth edition cancels and replaces the third which has been technically revised.

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

# Iron ores — Experimental methods for checking the precision of sampling, sample preparation and measurement

## 1 Scope

This International Standard specifies experimental methods for checking the precision of sampling, sample preparation and measurement of iron ores being carried out in accordance with the methods specified in ISO 3082 and the relevant ISO standards for measurement.

NOTE This International Standard may also be applied for the purpose of checking the precision of sampling, sample preparation and measurement separately.

## 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 3082:2000, *Iron ores — Sampling and sample preparation procedures*

ISO 3084:1998, *Iron ores — Experimental methods for evaluation of quality variation*

ISO 11323:—<sup>1)</sup>, *Iron ore and direct reduced iron — Vocabulary*

## 3 Definitions

For the purposes of this International Standard, the definitions given in ISO 11323 apply.

NOTE The precision of sampling is defined mathematically in annex A of ISO 3082:2000.

## 4 Principle

Sampling from twenty lots or more, preferably taking twice as many increments as specified in ISO 3082 and placing the increments alternately into two gross samples. If this is impracticable or the precision testing is carried out in conjunction with routine sampling, the normal number of increments specified in ISO 3082 may be used.

Preparation of separate test samples from each gross sample and determination of relevant quality characteristics.

Analysis of the experimental data obtained and calculation of the estimated value of the precision of sampling, sample preparation and measurement for each selected quality characteristic.

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1) To be published. (Revision of ISO 11323:1996)