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Hard coal and coke — Mechanical sampling —

Part 8: Methods of testing for bias

Houille et coke — Échantillonnage mécanique —

Partie 8: Méthodes de détection du biais



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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 rake 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 part of ISO 13909 may be the subject of patent rights. ISO shall not be held responsible in identifying any or all such patent rights.

International Standard ISO 13909-8 was prepared by Technical Committee ISO/TC 27, Solid mineral fuels, Subcommittee SC 4, Sampling.

ISO 13909 cancels and replaces ISO 9411-1:1994 Solid mineral fuels — Mechanical sampling from moving streams - Part 1: Coal and ISO 9411-2:1993, Solid mineral fuels - Mechanical sampling from moving streams - Part 2: Coke, of which it constitutes a technical revision. It as supersedes the methods of mechanical sampling of coal and coke given in ISO 1988:1975, Hard coal — Sampling and SO 2309:1980, Coke — Sampling.

ISO 13909 consists of the following parts, under the general the Hard coal and coke — Mechanical sampling:

- Part 1: General introduction
- Part 2: Coal Sampling from moving streams
- Part 3: Coal Sampling from stationary lots
- Part 4: Coal Preparation of test samples

- Part 5: Coke Sampling from moving streams Part 6: Coke Preparation of test samples Part 7: Methods for determining the precision of sampling, sample preparation and testing Nr. OZ TIZ S
- Part 8: Methods of testing for bias

Annex A of this part of ISO 13909 is for information only.

Introduction

It is not possible to lay down a standard method for field work by which a sampling procedure can be tested for bias because details of the procedure will inevitably be affected by local conditions. However, certain principles can be specified which should be adhered to whenever possible and these are discussed in this part of ISO 13909.

Testing for bias can be a tedious and expensive process, especially if testing of the primary increment sampler is included. All bias tests therefore include a thorough pre-test inspection, with appropriate action taken regarding any system deficiencies likely is cause bias.

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Hard coal and coke — Mechanical sampling —

Part 8:

Methods of testing for bias

1 Scope

This part of ISO 13909 sets out principles and procedures for testing the bias of test samples of hard coals or cokes, taken in accordance with other parts of ISO 13909. The use of univariate statistical methods only is addressed.

The user is cautioned that the chance of falsely concluding that there is a bias, when no bias exists in any one of several variables measured on the same set of samples, is substantially greater than for a single variable. While several variables may be measured, the single variable on which the outcome of the test will be governed shall be designated in advance.

NOTE In the text the term 'fuel' is used where both al and coke would be applicable in the context and either 'coal' or 'coke' where only one is applicable.

2 Normative references

The following normative documents contain provisions which through reference in this text, constitute provisions of this part of ISO 13909. 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 13909 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 13909-1:2001, Hard coal and coke — Mechanical sampling — Part 1: coneral intro	oduction.
ISO 13909-2:2001, Hard coal and coke — Mechanical sampling — Part 2: Coal Sam	pling from moving streams.
ISO 13909-4:2001, Hard coal and coke — Mechanical sampling — Part 4: Coal — Rec	aration of test samples.
ISO 13909-5:2001, Hard coal and coke — Mechanical sampling — Part 5: Coke — San	from moving streams.
ISO 13909-6:2001, Hard coal and coke — Mechanical sampling — Part 6: Coke — Prep	paration of test samples.

ISO 13909-7:2001, Hard coal and coke — Mechanical sampling — Part 7: Methods for determining the precision of sampling, sample preparation and testing.

3 Terms and definitions

For the purposes of this part of ISO 13909, the terms and definitions given in ISO 13909-1 apply.