INTERNATIONAL STANDARD

ISO 11412

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Carbonaceous materials for the production of aluminium — Calcined coke — Determination of water content

Produits carbonés utilisés pour la production de l'aluminium — Coke calciné — Dosage de l'eau



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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.

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 11412 was prepared by Technical Committee ISO/TC 47, Chemistry, Subcommittee SC 7, Aluminium oxide, cryolite, aluminium tuoride, sodium fluoride, carbonaceous products for the aluminium industry.

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Inis document is a preview denetated by EUS

Carbonaceous materials for the production of aluminium — Calcined coke— Determination of water content

1 Scope

This International Standard specifies a method for the determination of the water content of calcined coke as a percentage by mass of the fragmented, granular carbon and graphite material (solid matter).

The method is based on that described in DIN 51904:1981, *Prüfung von Kohlenstoffmaterialien – Bestimmung des Wassergehaltes – Feststoffe.*

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard 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 5725-1:1994, Accuracy (trueness and precision) of measurement methods and results – Part 1: General principles and definitions.

ISO 6375:1980, Carbonaceous materials for the production of aluminium — Lete for electrodes – Sampling.

3 Principle

A test portion is heated at (110 ± 5) °C. The percentage water content is then ballulated from the difference between the masses before and after heating.

4 Apparatus

- **4.1 Drying oven**, capable of being maintained at (110 ± 5) °C.
- **4.2** Analytical balance, capable of weighing to an accuracy of 0,1 g.
- **4.3 Drying tray**, made of aluminium sheet, measuring approximately 300 mm by 500 mm, with a raised edge of approximately 30 mm.