

Methods of sampling and test for

Carbonaceous materials used in aluminium manufacture —

Part 2: Electrode coke —

Section 2.1 Sampling

[ISO title: Carbonaceous materials for the production of
aluminium — Cokes for electrodes — Sampling]

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Chemicals Standards Committee (CIC/-) to Technical Committee CIC/24 upon which the following bodies were represented:

- Aluminium Federation
- British Ceramic Research Association
- Chemical Industries Association

The following bodies were also represented in the drafting of the standard, through subcommittees and panels:

- British Tar Industry Association
- Institute of Petroleum
- Standardization of Tar Products Tests Committee

This British Standard, having been prepared under the direction of the Chemicals Standards Committee, was published under the authority of the Board of BSI and comes into effect on 31 July 1985

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The following BSI references relate to the work on this standard:
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National foreword

This British Standard has been prepared under the direction of the Chemicals Standards Committee to provide methods of sampling and test for carbonaceous materials used in the production of aluminium. The standard will be published in two Parts, each Part being divided into Sections. The two Parts are:

— *Part 1: Electrode pitch;*

— *Part 2: Electrode coke.*

Initially, it is proposed that Part 2 will comprise the following Sections, applicable to green and/or calcined coke as indicated:

Section	Subject	Identical with
2.1	Sampling ^{ab}	ISO 6375
2.2	Ash content ^{ab}	ISO 8005
2.3	Ash analysis (AAS) ^{ab}	ISO . . . ^c
2.4	Ash analysis (XRF) ^{ab}	ISO . . . ^c
2.5	Apparent density and porosity ^{ab}	ISO . . . ^c
2.6	Density (xylene method) ^b	ISO 8004 ^c
2.7	Oil content (gravimetric method) ^b	ISO 6997 ^c
2.8	Oil content (extraction method) ^b	ISO . . . ^c
2.9	Sieve analysis ^b	ISO . . . ^c
2.10	Electrical resistivity ^b	ISO . . . ^c
2.11	Volatile matter content ^a	ISO . . . ^c

^a Applicable to green coke.

^b Applicable to calcined coke.

^c In preparation.

Other international methods of test for electrode coke are under consideration and, subject to approval by the United Kingdom, will be published as they become available.

This Section is identical with ISO 6375:1980 “*Carbonaceous materials used in the production of aluminium — Cokes for electrodes — Sampling*”, published by the International Organization for Standardization (ISO).

Terminology and conventions. The text of the International Standard has been approved as suitable for publication as a British Standard without deviation.

Some terminology and certain conventions are not identical with those used in British Standards; attention is drawn especially to the following.

The comma has been used as a decimal marker. In British Standards it is current practice to use a full point on the baseline as the decimal marker.

Wherever the words “International Standard” appear, referring to this standard, they should be read as “British Standard”.

Cross-references. The Technical Committee has reviewed the provisions of ISO 1988:1975, ISO 2309:1980 and ISO 6206:1979, to which reference is made in the text, and has decided that they are acceptable for use in conjunction with this standard.

A related British Standard for ISO 1988:1975 is BS 1017 “*Methods for sampling of coal and coke*” — Part 1:1977 “*Sampling of coal*”.

A related British Standard for ISO 2309:1980 is BS 1017. The Annex of ISO 2309 is specifically related to Appendices D and E of BS 1017-1:1977 and clause 9 of BS 1017-2:1960 “*Sampling of coke*”; clause 4 is specifically related to clause 5 of BS 1017-2:1960 and clause 6 is specifically related to clause 6 of BS 1017-2:1960. A related British Standard for ISO 6206:1979 is BS 1017-2.

Additional information. Although the procedures of this Section refer only to calcined cokes, it should be noted that some of the subsequent Sections will require green coke to be sampled using these procedures.

NOTE *Printing error.* In the note to 5.2.1 a), line 2, “for” should be read as “of”.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.