

Methods of sampling and test for

Carbonaceous materials used in aluminium manufacture —

Part 1: Electrode pitch —

Section 1.9 Determination of sulphur
content (bomb method)

UDC 669.713.7:66.041 – 65:621.357.9:665.775:543.845:543.822

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Committees responsible for this British Standard

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

- Aluminium Federation
- British Ceramic Research Ltd.
- British Tar Industry Association
- Chemical Industries' Association
- Institute of Petroleum
- Refractories Association of Great Britain

This British Standard, having been prepared under the direction of the Chemicals Standards Policy Committee, was published under the authority of the Board of BSI and comes into effect on 31 August 1989

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The following BSI references relate to the work on this standard:
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Amendments issued since publication

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National foreword

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

- *Part 1: Electrode pitch;*
- *Part 2: Electrode coke.*

Part 1 comprises the following Sections:

Section	Subject	Identical with
1.1	Sampling	ISO 6257
1.2	Water content (Dean and Stark method)	ISO 5939
1.3	Softening point (ring and ball method)	ISO 5940
1.4	Content of toluene-insoluble material	ISO 6376
1.5	Content of quinoline-insoluble material	ISO 6791
1.6	Coking value	ISO 6998
1.7	Density	—
1.8	Ash	ISO 8006
1.9	Sulphur content	ISO 9055

The UK did not approve the determination of density (by pyknometer) method given in ISO 6999:1983 and a national version using the buoyancy method has been published.

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

This Section is identical with ISO 9055 “*Carbonaceous materials used in the production of aluminium — Pitch for electrodes — Determination of sulfur content by the bomb method*”, published by the International Organization for Standardization (ISO).

Cross- reference

International Standard	Corresponding British Standard
ISO 6257:1980	BS 6043 <i>Methods of sampling and test for carbonaceous materials used in aluminium manufacture</i> Part 1 <i>Electrode pitch</i> Section 1.1:1981 <i>Sampling</i> (Identical)

Additional information. With reference to clause 4, water complying with grade 3 of BS 3978 “*Specification for water for laboratory use*” is suitable.

This standard describes a method of test only, and should not be used or quoted as a specification defining limits of purity. Reference to this Section should state that the method of test used is in accordance with BS 6043-1.9:1989.

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 and ii, 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.