

Methods of sampling and test for

Carbonaceous materials used in aluminium manufacture —

Part 1: Electrode pitch —

Section 1.3 Determination of softening point (ring and ball method)

[ISO title: Carbonaceous materials for the production of
aluminium — Pitch for electrodes — Determination of softening
point by the ring and ball method]

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Cooperating organizations

The Chemicals Standards Committee, under whose direction this British Standard was prepared, consists of representatives from the following:

- Association of Fatty Acid Distillers
- British Tar Industry Association*
- Chemical Industries Association
- Consumer Standards Advisory Committee of BSI
- Department of Health and Social Security
- Department of Industry (Laboratory of the Government Chemist)
- Fertiliser Manufacturers' Association Ltd.
- Ministry of Agriculture, Fisheries and Food
- Ministry of Defence
- National Sulphuric Acid Association
- Paintmakers' Association of Great Britain Ltd.
- Royal Institute of Public Health and Hygiene
- Royal Society of Chemistry
- Soap and Detergent Industry Association
- Standardization of Tar Products Tests Committee*

The organizations marked with an asterisk in the above list, together with the following, were directly represented on the Technical Committee entrusted with the preparation of this British Standard:

- Aluminium Federation
- British Ceramic Research Association
- Institute of Petroleum

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 May 1983

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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 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 1 will comprise 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 ^a
1.7	Density	ISO ^a
1.8	Ash content	ISO ^a
1.9	Sulphur content	ISO ^a

^a In course of preparation and referred to for information purposes only.

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 5940:1981 “*Carbonaceous materials for the production of aluminium — Pitch for electrodes — Determination of softening point by the ring and ball method*”, 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-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. This standard describes methods 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 6043-1.3:1983.

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.