

Methods of

Sampling and test for carbonaceous materials used in aluminium manufacture —

Part 3: Electrodes —

Section 3.2: Determination of density
of cathode blocks and prebaked anodes

ICS 71.100.10

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Amendments issued since publication

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National foreword

This British Standard reproduces verbatim ISO 9088:1997 and implements it as the UK national standard.

The UK participation in its preparation was entrusted to Technical Committee CII/24, Raw materials for the aluminium industry, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Part 3 of BS 6043 provides methods of test for prebaked anodes and cathode blocks as follows:

Section	Subject	Identical with	
3.1	Sampling		
3.1.1	Sampling of cathode blocks	ISO 8007-1	^a
3.1.2	Sampling of prebaked anodes	ISO 8007-2	^a
3.2	Determination of density of cathode blocks and prebaked anodes	ISO 9088	
3.3	Determination of the open porosity and bulk density of prebaked anodes and cathode blocks		
3.3.1	Dimensions method	ISO 12985-1	^a
3.3.2	Hydrostatic method	ISO 12985-2	^a
3.4	Determination of electrical resistivity	ISO 11713	^a
3.5	Determination of flexural strength	ISO 12986	^a
3.6	Determination of thermal conductivity	ISO 12987	^a
3.7	Determination of chemical reactivity	ISO 12988	^a
3.8	Determination of compressive strength	ISO 12989	^a
3.9	Determination of thermal expansion	ISO 14420	^a
3.10	Determination of sodium expansion	ISO 15379	^a
3.11	Determination of air permeability		^a

^a In preparation

Note

In regard to clause 4.4, it is common practice in the United Kingdom to use paraffin (kerosene) in place of xylene. This alternative may be used, provided that both the use of paraffin and the relative density of the paraffin are recorded in the test report, 9 e).

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or using the “Find” facility of the BSI Standards Electronic Catalogue.

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.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the ISO title page, pages ii to iv, pages 1 to 4 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.

INTERNATIONAL STANDARD

**ISO
9088**

First edition
1997-03-01

Carbonaceous materials used for the production of aluminium — Cathode blocks and prebacked anodes — Determination of the density in xylene by a pycnometric method

*Produits carbonés utilisés pour la production de l'aluminium — Blocs
cathodiques et anodes précuites — Détermination par pycnométrie de la
masse volumique en xylène*

