BRITISH STANDARD

BS 7709-1: 1993
ISO 10136-1: 1993

Analysis of extract solutions of glass —

Part 1: Method for determination of silicon dioxide by molecular absorption spectrometry

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Laboratory Apparatus Standards Policy Committee (LBC/-) to Technical Committee LBC/36, upon which the following bodies were represented:

Association for Science Education
BLWA Ltd. (The Association of the Laboratory Supply Industry)
British Glass Manufacturers' Confederation
CLEAPSS School Science Service
Department of Trade and Industry (Laboratory of the Government Chemist)
Institute of Medical Laboratory Sciences

The following body was also represented in the drafting of the standard, through a subcommittee:

Society of Glass Technology

This British Standard, having been prepared under the direction of the Laboratory Apparatus Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 15 September 1993

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

This Part of BS 7709 has been prepared under the direction of the Laboratory Apparatus Standards Policy Committee and is identical with ISO 10136-1:1993 *Glass and glassware — Analysis of extract solutions — Part 1: Determination of silicon dioxide by molecular absorption spectrometry,* published by the International Organization for Standardization (ISO). ISO 10136-1 has been prepared by Subcommittee 5 of Technical Committee ISO/TC 48, with the active participation and approval of the UK.

BS 7709 is published in six Parts as follows:

— *Part 1: Method for determination of silicon dioxide by molecular absorption spectrometry;*

— *Part 2: Method for determination of sodium oxide and potassium oxide by flame spectrometric methods;*

— *Part 3: Method for determination of calcium oxide and magnesium oxide by flame atomic absorption spectrometry;*

— *Part 4: Method for determination of aluminium oxide by molecular absorption spectrometry;*

— *Part 5: Method for determination of iron(III) oxide by molecular absorption spectrometry and flame atomic absorption spectrometry;*

— *Part 6: Method for determination of boron(III) oxide by molecular absorption spectrometry.*

BS 2649 *Methods for analysis of glass* Part 1:1988 *Glasses of the soda-lime-magnesia-silica type* and Part 3:1988 *Glasses of the potassium oxide-lead oxide-silica type* describe methods of determination primarily of the gravimetric type. The methods given in BS 7709 should be considered complementary to those of BS 2649.

Cross-references

International Standard	Corresponding British Standard
	BS 700 *Graduated pipettes*
ISO 835-1:1981	Part 1:1982 *Specification for general requirements* (Identical)
ISO 835-2:1981	Part 2:1982 *Specification for pipettes for which no waiting time is specified* (Identical)
ISO 1042:1983	BS 1792:1982 *Specification for one-mark volumetric flasks* (Identical)
ISO 3585:1991	BS 2598 *Glass plant, pipeline and fittings* Part 1:1991 *Specification for properties of borosilicate glass 3.3* (Identical)
ISO 3696:1987	BS 3978:1987 *Specification for water for laboratory use* (Identical)
ISO 3819:1985	BS 6523:1984 *Specification for glass beakers for laboratory use* (Technically equivalent)

The Technical Committee has reviewed the provisions of ISO 385-2, ISO 648, ISO 835-3, ISO 6955 and ISO 7056, to which normative reference is made in the text, and has decided that they are acceptable for use in conjunction with this standard.

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This British Standard describes a method of test only and should not be used or quoted as a specification defining limits of performance. Reference to this British Standard should indicate that the method of test used is in accordance with BS 7709-1:1993.

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.

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