BRITISH STANDARD

BS 5072-7: 1980
ISO 3431: 1976

Methods of

Test for sodium fluoride for industrial use —

Part 7: Determination of soluble sulphates content

[ISO title: Sodium fluoride primarily used for the production of aluminium — Determination of soluble sulphates content — Turbidimetric 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 Government departments and scientific and industrial organizations:

Association of Fatty Acid Distillers
British Tar Industry Association
Chemical Industries Association*
Chemical Society, Analytical Division*
Consumer Standards Advisory Committee of BSI
Department of Health and Social Security
Department of Industry (Laboratory of the Government Chemist)
Fertiliser Manufacturers' Association Ltd
Hydrocarbon Solvents Association
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
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 committee entrusted with the preparation of this British Standard:

Aluminium Federation
British Ceramic Research Association
Royal Institute of Chemistry

This British Standard, having been prepared under the direction of the Chemicals Standards Committee, was published under the authority of the Executive Board and comes into effect on 30 April 1980

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

		Page
Cooperating organizations		Inside front cover
National foreword		ii
1	Scope and field of application	1
2	Reference	1
3	Principle	1
4	Reagents	1
5	Apparatus	1
6	Procedure	1
7	Expression of results	2
8	Test report	2
Annex ISO Publications relating to sodium fluoride for industrial use and sodium fluoride primarily used for the production of aluminium		3
Publications referred to		Inside back cover

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National foreword

WARNING NOTE. Sodium fluoride is toxic and is irritant, particularly in the form of dust. Carry out operations involving its use in a fume cupboard and wear suitable protective clothing to prevent inhalation of the dust and contact with the eyes, skin and clothing.

This British Standard has been prepared under the direction of the Chemicals Standards Committee in order to provide methods for the analysis of sodium fluoride for industrial use. For some years the United Kingdom has participated in the work of preparing methods of test applicable to this material, organized by Subcommittee 7 (formerly WG 8), Aluminium oxide and related compounds, of Technical Committee 47, Chemistry, of the International Organization for Standardization (ISO). As international agreement is reached on the methods, it is proposed to publish them as Parts of this British Standard.

This Part is identical with ISO 3431 "*Sodium fluoride primarily used for the production of aluminium — Determination of soluble sulphates content — Turbidimetric method*".

Terminology and conventions. The text of the International Standard has been approved as suitable for publication, without deviation, as a British Standard. Some terminology and certain conventions are not identical with those used in British Standards; attention is especially drawn to the following.

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

Where the words "International Standard" appear, referring to this standard, they should be read as "British Standard".

Cross-references

International Standard	Corresponding British Standard
	BS 5072 *Methods of test for sodium fluoride for industrial use*
ISO 3428:1976	Part 4:1980 *Preparation and storage of test samples* (Identical)
ISO 3429:1976	Part 5:1980 *Determination of iron content* (Identical)
ISO 3430:1976	Part 6:1980 *Determination of silica content* (Identical)
ISO 3566:1976	Part 8:1980 *Determination of chlorides content* (Identical)
ISO 4278:1977	Part 9:1980 *Determination of carbonate content* (Identical)

Referred to in the Annex, for information only.

Related British Standards for ISO 2831[1)], ISO 2832[1)] and ISO 2833[1)] are BS 5072-1, BS 5072-2 and BS 5072-3 respectively.

NOTE The title and clause **1** of ISO 3429, ISO 3430, ISO 3431, ISO 3566 and ISO 4278 (see the Annex) state that the sodium fluoride is "primarily used for the production of aluminium". This is incorrect, at least for the United Kingdom. This has been brought to the attention of ISO Technical Committee 47, in a proposal to amend the International Standards concerned.

Additional information

Water. Water complying with the requirements of clause **4** is specified in BS 3978 "*Water for laboratory use*".

Hydrochloric acid, ρ approximately 1.18 g/ml, about 36 % (m/m) solution, which is the corresponding reagent normally obtainable in the United Kingdom, is suitable for use in place of the approximately 1.19 g/ml solution specified in **4.1**.

[1)] Referred to in the Annex, for information only.

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