

Methods of

# Test for cryolite —

## Part 8: Determination of calcium content

[ISO title: Cryolite, natural and artificial — Determination of calcium content — Flame atomic absorption method]

UDC 661.862.369:546.41:543.422

# 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\*
- 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
- Chemical Society, Analytical Division\*

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 31 December 1980

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

This British Standard has been prepared under the direction of the Chemicals Standards Committee in order to provide methods for the analysis of cryolite 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 Sub-committee 7 (formerly WG 8), Alumina 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 of BS 5050 is identical with ISO 3391 “*Cryolite, natural and artificial — Determination of calcium content — Flame atomic absorption 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

There is at present no British Standard identical with ISO 1619:1976, but clause 2.3 of BS 5050:1974 “*Methods of test for cryolite*”, covers the same ground as clause 3.3 of ISO 1619 (referred to in clause 6.1 of this standard).

The other International Standards listed in the annex are for information only. Corresponding British Standards are listed below.

International Standard	Corresponding British Standard	Title
	<b>BS 5050:1974</b> <i>Methods of test for cryolite</i>	
ISO 1620:1976	Clause 3	<i>Determination of silica content</i> (Related)
ISO 1693:1976	Clause 4	<i>Determination of fluorine content</i> (Related)
ISO 1694:1976	Clause 5	<i>Determination of iron content</i> (Related)
ISO 2366:1974	Clause 6	<i>Determination of sodium content</i> (Related)
ISO 2367:1972	Clause 7	<i>Determination of aluminium content (gravimetric method)</i> (Related)
ISO 2830:1973	Clause 8	<i>Determination of aluminium content (atomic absorption method)</i> (Related)
	<b>BS 5050 Methods of tests for cryolite</b>	
ISO 3392:1976	Part 9:1980	<i>Determination of water content (Karl Fischer method)</i> (Identical)
ISO 3393:1976	Part 10:1980	<i>Gravimetric determination of moisture content</i> (Identical)