

Methods of test for Aluminium oxide —

Part 4: Preparation of sample solution by alkaline fusion

[ISO title: Aluminium oxide primarily used for the production of aluminium — Preparation of solution for analysis — Method by alkaline fusion]

NOTE It is recommended that this Part be read in conjunction with the general information given in BS 4140-0 “*General introduction*” which is issued separately.

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The Committees responsible for this British Standard are shown in Part 0.

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

This Part of BS 4140 is identical with ISO 804:1976 “*Aluminium oxide primarily used for the production of aluminium — Preparation of solution for analysis — Method by alkaline fusion*”, published by the International Organization for Standardization (ISO).

The method supersedes clause 4 of BS 4140:1967. Parts 1 to 7 of this standard collectively supersede BS 4140:1967, which is withdrawn.

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.

In British Standards it is current practice to use the symbol “L” for litre (and its submultiples) rather than “l”.

Wherever the words “International Standard” appear, referring to this standard, they should be read as “British Standard”.

Cross-references

International Standard	Corresponding British Standard
	BS 4140 <i>Methods of test for aluminium oxide</i>
ISO 802:1976	Part 1:1986 <i>Preparation and storage of test samples</i> (Identical)
ISO 2927:1973	Part 20:1980 <i>Sampling</i> (Identical)

NOTE The other International Standards listed in the Annex are for information only. Their correspondence with British Standards is summarized in BS 4140-0 “*General introduction*”.

Additional information. In 6.2 and 6.4.1 it is preferable in the UK to use the fusion mixture containing boric acid for solutions subsequently to be used for the determination of silica (see BS 4140-5) as the results are found to be more reliable.

In the UK it is preferable to use polypropylene beakers in place of the polyethylene type referred to in 6.3.

NOTE *Textual error.* In line 1 of clause 3 “protion” should read “portion”.

This standard prescribes methods of test only, and should not be used or quoted as a specification defining limits of purity. Reference to this Part should indicate that the method of preparation complies with BS 4140-4:1986.

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 and ii, pages 1 to 4, 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.