

Ceramic tiles —

Part 13: Determination of chemical resistance

The European Standard EN ISO 10545-13:1997 has the status of a British Standard

ICS 91.100.20

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW



Document Sharing Hub

Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee B/539, Ceramic tiles and other rigid tiling, upon which the following bodies were represented:

- Association of Building Engineers
- British Adhesives and Sealants Association
- British Ceramic Research Ltd.
- British Ceramic Tile Council
- Building Research Establishment
- Chartered Institute of Building
- Concrete Society
- Construction Confederation
- Consumer Policy Committee of BSI
- Contract Flooring Association
- Federation of Master Builders
- Federation of Resin Formulators and Applicators
- Health and Safety Executive
- Institute of Clerks of Works of Great Britain
- London Underground Ltd.
- Mortar Producers' Association
- National Federation of Clay Industries
- National Federation of Terrazzo, Marble and Mosaic Specialists
- National Master Tile Fixers' Association
- National Tile, Faience and Mosaic Fixers' Society
- Natural Slate Quarries Association
- Royal Institute of British Architects
- Stone Federation

This British Standard, having been prepared under the direction of the Sector Board for Building and Civil Engineering, was published under the authority of the Standards Board and comes into effect on 15 November 1997

© BSI 04-2000

The following BSI references relate to the work on this standard:
Committee reference B/539
Draft for comment 93/102980 DC

ISBN 0 580 28661 4

Amendments issued since publication

Amd. No.	Date	Comments

Contents

	Page
Committees responsible	Inside front cover
National foreword	ii
Foreword	2
1 Scope	3
2 Normative reference	3
3 Principle	3
4 Aqueous test solutions	3
5 Apparatus	3
6 Test specimens	3
7 Procedure for unglazed tiles	4
8 Procedure for glazed tiles	4
9 Test report	5
Figure 1 — Classification for the chemical resistance of glazed tiles	6
List of references	Inside back cover

National foreword

This British Standard has been prepared by Technical Committee B/539 and is the English language version of EN ISO 10545-13:1997 *Ceramic tiles — Part 13: Determination of chemical resistance*, published by the European Committee for Standardization (CEN). It is technically equivalent to ISO 10545-13:1995, published by the International Organization for Standardization (ISO). It supersedes BS 6431-18:1983 and the chemical (non-staining) tests in BS 6431-19:1984, which will be withdrawn when Parts 1 to 16 of BS EN ISO 10545 have all been published.

This Part of BS EN ISO 10545 was originally drafted by CEN/TC 67, Ceramic tiles, as EN 106, published in 1982, and EN 122, published in 1984, both confirmed in 1991. Subsequently the European Standards were revised by ISO as a Part of ISO 10545, which has now been approved by CEN as a Part of EN ISO 10545.

The editorial modification mentioned in the EN ISO foreword has been made in this BS EN ISO text.

The technical changes from the methods described in BS 6431-18 and BS 6431-19 are as follows.

For household chemicals, the standard cleaning agent solution has been deleted and for swimming pool salts, the copper sulfate solution. The acids and alkalis are grouped as low and high concentrations. The former are hydrochloric acid (3 % V/V), citric acid and potassium hydroxide solution (30 g/l). The latter are hydrochloric acid (18 % V/V), lactic acid and potassium hydroxide solution (100 g/l).

Unglazed tiles are immersed in each of the test solutions for 12 days before washing in running water for 5 days. Glazed tiles are tested by ponding the test solution on the face for a period depending on the solution used. The tiles are then classified into nine classes for unglazed and nine for glazed, based on the chemical used and its effect.

Cross-reference

Publication referred to	Corresponding British Standard
ISO 3585:1991	BS 2598: <i>Glass plant, pipeline and fittings</i> Part 1:1991 <i>Specification for properties of borosilicate glass 3.3</i>

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, the EN ISO title page, pages 2 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.