

Methods of testing

# Vitreous enamel finishes —

## Part 14: Apparatus for testing with acid and neutral liquids and their vapours

[ISO title: Vitreous and porcelain enamels —  
Apparatus for testing with acid and neutral liquids and their  
vapours]

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# Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Surface Coatings (other than Paints) Standards Committee (SRC/-) to Technical Committee SRC/7 upon which the following bodies were represented:

- Association of Manufacturers of Domestic Electrical Appliances
- Bcira
- British Bath Manufacturers' Association
- British Gas Corporation
- Consumer Standards Advisory Committee of BSI
- Electricity Supply Industry in England and Wales
- Institute of Vitreous Enamellers
- Metal Sink Manufacturers' Association
- Society of British Gas Industries
- Vitreous Enamel Development Council
- Coopted members

This British Standard, having been prepared under the direction of the Surface Coatings (other than Paints) Standards Committee, was published under the authority of the Board of BSI and comes into effect on 30 November 1984

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The following BSI references relate to the work on this standard:  
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## Amendments issued since publication

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## National foreword

This revision of this Part of this British Standard, prepared under the direction of the Surface Coating (other than Paints) Standards Committee, is identical with ISO 2733:1983 “*Vitreous and porcelain enamels — Apparatus for testing with acid and neutral liquids and their vapours*” ISO 2733 was prepared by Technical Committee TC 107, Metallic and other non-organic coatings, of the International Organization for Standardization (ISO), with the active participation and approval of the UK.

This revision supersedes BS 1344-14:1975 which is withdrawn. This revision differs from the 1975 publication in that:

- a) the asbestos washers (3.8) have been replaced by washers made of synthetic fibres;
- b) the rubber specified for the packing ring (packing B) and the protective envelope (packing C) is now 70 IRHD according to ISO 48, resistant to citric acid and water at 140 °C (for example chloroprene).

Further Parts of this standard specifying methods of test for other properties of vitreous enamels are in course of preparation. The standard at present includes the following Parts, either published or in course of preparation.

- *Part 1: Resistance to thermal shock of coatings on articles other than cooking utensils;*
- *Part 2: Resistance to citric acid at room temperature;*
- *Part 3: Resistance to products of combustion containing sulphur compounds;*
- *Part 4: Resistance to abrasion;*
- *Part 5: Determination of resistance to hot detergent solutions used for washing textiles;*
- *Part 6: Resistance to alkali;*
- *Part 7: Determination of resistance to heat;*
- *Part 8: Determination of resistance to boiling citric acid;*
- *Part 9: Resistance to boiling water and water vapour;*
- *Part 10: Resistance to boiling hydrochloric acid;*
- *Part 11: High voltage test for articles for use under highly corrosive conditions;*
- *Part 12: Production of specimens for testing coatings on sheet steel;*
- *Part 13: Production of specimens for testing coatings on cast iron;*
- *Part 14: Apparatus for testing with acid and neutral liquids and their vapours;*
- *Part 15: Apparatus for testing with alkaline liquids;*
- *Part 16: Resistance to thermal shock of coatings on cooking utensils;*
- *Part 17: Resistance to hot sodium hydroxide solution;*
- *Part 18: Determination of fluidity behaviour: fusion flow test;*
- *Part 19: Apparatus for determination of resistance to hot detergent solutions used for washing textiles.*

**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.

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

### Cross-references

| International Standards | Corresponding British Standards                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| ISO 48:1979             | BS 903 <i>Methods of testing vulcanized rubber</i><br>Part A26:1969 <i>Determination of hardness</i><br>(Technically equivalent)              |
| ISO 718:1982            | BS 3517:1983 <i>Methods for thermal shock tests on laboratory glassware</i><br>(Technically equivalent)                                       |
| ISO 3585:1976           | BS 2598 <i>Glass plant, pipeline and fittings</i><br>Part 1:1980 <i>Specification for properties of borosilicate glass 3.3</i><br>(Identical) |
| ISO 4799:1978           | BS 5922:1980 <i>Specification for glass condensers for laboratory use</i><br>(Identical)                                                      |

**Textual error.** When adopting the text of the International Standard, the textual error given below was discovered. It has been marked in the text and has been reported to ISO in a proposal to amend the text of the International Standard.

In clause 3, line 2, “supports with standard” should be read as “supports and with standard”.

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.