

Methods of testing

Vitreous enamel finishes —

Part 5: Determination of resistance to hot detergent solutions used for washing textiles

[ISO title: Vitreous and porcelain enamels — Determination of
resistance to hot detergent solutions used for washing textiles]

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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 31 October 1984

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National foreword

This revision of this Part of this British Standard, prepared under the direction of the Surface Coatings (other than Paints) Standards Committee, is identical with ISO 4533:1983 “*Vitreous and porcelain enamels — Determination of resistance to hot detergent solutions used for washing textiles*”. ISO 4533 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This revision supersedes BS 1344-5:1965 which is withdrawn. It differs from the 1965 publication in that

- a) the test is carried out only on prepared test specimens (originally, means were also provided of testing enamelled components);
- b) a specially designed apparatus, described in BS 1344-19:1984, is now used for carrying out the test;
- c) the test temperature has been changed from $96 \pm 1^\circ\text{C}$ to $95 \pm 1^\circ\text{C}$;
- d) the composition of the test solution has been changed;
- e) the test now determines the loss in mass resulting from exposure of the test specimen to the test solution for 24 h, or for 168 h if the initial average mass loss is less than 5 mg. (Originally the test determined the exposure time required to effect a visually observable loss of gloss.)

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 of hot detergent solutions used for washing textiles.*