
**Vitreous and porcelain enamels —
Determination of resistance to boiling water
and water vapour**

Émaux vitrifiés — Détermination de la résistance à l'eau bouillante et à sa vapeur



Foreword

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International Standard ISO 2744 was prepared by Technical Committee ISO/TC 107, *Metallic and other inorganic coatings*, Subcommittee SC 6, *Vitreous and porcelain enamels*.

This third edition cancels and replaces the second edition (ISO 2744:1983), which has been technically revised.

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Vitreous and porcelain enamels — Determination of resistance to boiling water and water vapour

1 Scope

This International Standard specifies a method of test for determining the resistance of flat surfaces of vitreous and porcelain enamels to pure boiling water and/or water vapour (see note 1).

This International Standard is also suitable for determining the resistance of vitreous and porcelain enamels to any other water for example to drinking water and river water.

The method is also applicable to determination of the resistance of enamels to the liquid and vapour phases of the corrosive medium.

NOTES

1 If temperatures below the boiling point of water are used this should be stated in the test report.

2 The resistance of vitreous and porcelain enamel to water generally depends on the pH value and of the substances in the water. In addition, the test results obtained in the liquid phase are influenced by the corrosion products of the vitreous and porcelain enamel and also of the borosilicate glass of the testing apparatus. Therefore, the test results obtained for different exposure times can differ (see also note in 8.1).

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 2723 : 1995,	<i>Vitreous and porcelain enamels for sheet steel - Production of specimens for testing.</i>
ISO 2724 : 1973,	<i>Vitreous and porcelain enamels for cast iron - Production of specimens for testing.</i>
ISO 2733 : 1983,	<i>Vitreous and porcelain enamels - Apparatus for testing with acid and neutral liquids and their vapours.</i>
ISO 3585 : 1991,	<i>Borosilicate glass 3.3 - Properties.</i>
ISO 4788 : 1980,	<i>Laboratory glassware - Graduated measuring cylinders.</i>