
**Vitreous and porcelain enamels —
Determination of resistance to boiling citric
acid**

Émaux vitrifiés — Détermination de la résistance à l'acide citrique bouillant



Foreword

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International Standard ISO 2742 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 2742:1983), which has been technically revised.

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Vitreous and porcelain enamels — Determination of resistance to boiling citric acid

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 citric acid.

It is especially intended for the testing of enamels for articles which are used with boiling, slightly dissociated acids, for example cooking utensils.

NOTE — This method of test is also suitable for determining the chemical resistance of enamels to other acid solutions.

This method of test is not suitable for enamels used in the chemical industry or those exposed to heavy attack by inorganic acids for a long period.

For testing enamels at room temperature, see ISO 2722.

For testing acid resistance of enamels for containers and apparatus for the chemical industry, see ISO 2743.

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>