

Methods of test for vitreous enamel coatings**Method 1.1: Chemical tests—Determination of resistance of vitreous enamel coatings to hot sodium hydroxide**

PREFACE

This Standard was prepared by Standards Australia Committee CH-007, Vitreous Enamel Finishes to supersede AS 2219.1.1—1978.

This Standard is identical with and has been reproduced from ISO 2745:1998, *Vitreous and porcelain enamels—Determination of resistance to hot sodium hydroxide*.

This Standard is Part 1.1 of a series of Standards covering the chemical testing of vitreous enamel coatings.

The series comprises the following Parts:

AS

2219	Methods of test for vitreous enamel coatings
2219.1.1	Method 1.1: Chemical tests—Determination of resistance of vitreous enamel coatings to hot sodium hydroxide
2219.1.2	Method 1.2: Chemical tests—Determination of resistance of vitreous enamel coatings to boiling water and water vapour
2219.1.3	Method 1.3: Chemical tests—Determination of resistance of vitreous enamel coatings to boiling hydrochloric acid
2219.1.5	Method 1.5: Chemical tests—Determination of resistance of vitreous enamel coatings to citric acid at room temperature

As this Standard is reproduced from an International Standard, the following applies:

- Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- In the source text, 'this international Standard' should read 'this Australian Standard'.
- A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by Australian Standards, as follows:

<i>Reference to International Standard</i>	<i>Australian Standard</i>
ISO	AS
1042 Laboratory glassware—One-mark volumetric flasks	2164 Laboratory glassware—One-mark volumetric flasks
2723 Vitreous and porcelain enamels for sheet steel—Production of specimens for testing	—

ISO		AS
2724	Vitreous and porcelain enamels for cast iron—Production of specimens for testing	—
2734	Vitreous and porcelain enamels— Apparatus for testing with alkaline liquids	—
3696	Water for analytical laboratory use—Specification and test methods	—

1 Scope

This International Standard specifies a method of test for determining the resistance of flat surfaces of vitreous and porcelain enamels to a hot solution of sodium hydroxide.

NOTE — This method of test may also be used for determining the chemical resistance of enamels to other alkaline agents and can also be carried out at temperatures below 80° C, but this should be stated in the test report.

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 1042 : —¹⁾, *Laboratory glassware — One-mark volumetric flasks.*

ISO 2723 : 1995, *Vitreous and porcelain enamels for sheet steel — Production of specimens for testing.*

ISO 2724 : 1973, *Vitreous and porcelain enamels for cast iron — Production of specimens for testing.*

ISO 2734 : 1997, *Vitreous and porcelain enamels — Apparatus for testing with alkaline liquids.*

ISO 3696 : 1987, *Water for analytical laboratory use — Specification and test methods.*

1) To be published. (Revision of ISO 1042:1983).