

Methods of test for vitreous enamel coatings**Method 1.5: Chemical tests—Determination of resistance of vitreous enamel coatings to citric acid at room temperature**

PREFACE

This Standard was prepared by Standards Australia Committee CH-007, Vitreous Enamel Finishes to supersede AS 2219.1.5—1978.

This Standard is identical with and has been reproduced from ISO 2722:1997, *Vitreous and porcelain enamels—Determination of resistance to citric acid at room temperature*.

This 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

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

<i>Reference to International Standard</i>		<i>Australian Standard</i>	
ISO 648	Laboratory glassware—One-mark pipettes	AS 2164	Laboratory glassware—One-mark volumetric flasks
ISO 666	Water for analytical laboratory use—Specification and test methods	—	
4788	Laboratory glassware—Graduated measuring cylinders	2164	Laboratory glassware—One-mark volumetric flasks

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1 Scope

This International Standard specifies a method of test for the determination of resistance to citric acid, at room temperature, of vitreous and porcelain enamelled articles, and also specifies a method for classifying the results.

It is not applicable to vitreous and porcelain enamels that come into contact with hot and strong acids or to vitreous and porcelain enamelled articles for use in the chemical industry.

NOTES

- 1 For testing the resistance to boiling citric acid, see ISO 2742^[3].
- 2 For testing the resistance to sulfuric acid of vitreous and porcelain enamels at room temperature, see ISO 8290^[5].
- 3 For testing the resistance to condensing hydrochloric acid vapour of vitreous and porcelain enamelled surfaces of containers and equipment used in the chemical industry, see ISO 2743^[4].

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 648:1977, *Laboratory glassware — One-mark pipettes*.

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

ISO 4788:1980, *Laboratory glassware — Graduated measuring cylinders*.

3 Principle

Exposure, under defined conditions, of a part of the surface of a test specimen to attack by citric acid solution.

Assessment of resistance by methods based on the appearance and cleanability of the enamelled surface.