

Australian Standard™

Methods of test for vitreous enamel coatings

Method 2.1: Physical tests—Determination of resistance of vitreous enamel coatings on metal substrates to thermal shock

PREFACE

This Standard was prepared by Committee CH-007, Vitreous Enamel Finishes, to supersede AS 2219.2.1—1978, *Methods of test for vitreous enamel coatings*, Method 2.1. *Physical tests—Determination of resistance of vitreous enamel coatings on steel to thermal shock*.

During its work on this Standard, the Committee took particular note of ISO/TC/SC 7's published Standards as listed below.

ISO

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| 2723 | Vitreous and porcelain enamels for sheet steel—Production of specimens for testing |
| 2724 | Vitreous and porcelain enamels for cast iron—Production of specimens for testing |
| 2733 | Vitreous and porcelain enamels—Apparatus for testing with acid and neutral liquids and their vapours |
| 2734 | Vitreous and porcelain enamels—Apparatus for testing with alkaline liquids |
| 2742 | Vitreous and porcelain enamels—Determination of resistance to boiling citric acid |
| 2746 | Vitreous and porcelain enamels—Enamelled articles for service under highly corrosive conditions—High voltage test |

This Standard is Part 2.1 of a series of Standards covering the chemical, physical and miscellaneous testing of vitreous enamel coatings.

The series comprises of the following Standards:

AS

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| 1914 | Glossary of terms relating to vitreous enamel coatings |
| 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 |
| 2219.2.1 | Method 2.1: Physical tests—Determination of resistance of vitreous enamel coatings on metal substrates to thermal shock |
| 2219.3.1 | Method 3.1: Miscellaneous tests—Determination of the performance of continuous cleaning vitreous enamel coatings |