

Australian Standard™

**Supplementary cementitious materials  
for use with portland and blended  
cement**

**Part 2: Slag—Ground granulated iron  
blast-furnace**



This Australian Standard was prepared by Committee BD-031, Supplementary Cementitious Materials for Use with Portland and Blended Cement. It was approved on behalf of the Council of Standards Australia on 20 July 2001 and published on 1 November 2001.

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The following interests are represented on Committee BD-031:

Ash Development Association of Australia  
Association of Consulting Engineers Australia  
Australasian Slag Association  
Australian Pre-mixed Concrete Association  
AUSTROADS  
Bureau of Steel Manufacturers of Australia  
Cement and Concrete Association of Australia  
Concrete Institute of Australia  
CSIRO Building, Construction and Engineering  
Department of Public Works and Services NSW  
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## PREFACE

This Standard was prepared by the Standards Australia Committee BD-031, Supplementary Cementitious Materials for Use with Portland and Blended Cement, to supersede AS 3582.2—1991, *Supplementary cementitious materials for use with portland cement, Part 2: Slag—Ground granulated iron blast-furnace*.

The objective of this Standard is to bring it in line with AS 3582.1, *Supplementary cementitious materials for use with portland and blended cement — Fly ash* and AS 3972, *Portland and blended cements*.

In preparing the first edition of this Standard in 1991, the ISO, CN and other relevant International Standards were taken into consideration.

The term 'informative' has been used in this Standard to define the application of the appendix to which it applies. An 'informative' appendix is only for information and guidance.

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## STANDARDS AUSTRALIA

### Australian Standard

## Supplementary cementitious materials for use with portland and blended cement

### Part 2: Slag—Ground granulated iron blast-furnace

#### 1 SCOPE

This Standard sets out requirements for ground granulated iron blast-furnace slag for use as a cementitious material in concrete and mortar.

NOTE: Alternative methods for determining compliance with this Standard are given in Appendix A.

#### 2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS	
1199	Sampling procedures and tables for inspection by attributes
1399	Guide to AS 1199—Sampling procedures and table for inspection by attributes
2349	Method of sampling portland and blended cements
3583	Methods of test for supplementary cementitious materials for use with portland and blended cement
3583.1	Method 1: Determination of fineness by the 45 µm sieve
3583.3	Method 3: Determination of loss on ignition
3583.6	Method 6: Determination of relative water requirement and relative strength
3583.7	Method 7: Determination of sulfide sulfur content
3583.8	Method 8: Determination of sulfuric anhydride content
3583.9	Method 9: Determination of magnesia content
3583.10	Method 10: Determination of alumina and total iron content
3583.11	Method 11: Determination of manganese content
3583.12	Method 12: Determination of available alkali
3583.13	Method 13: Determination of chloride ion content
3583.14	Method 14: Determination of insoluble residue content
3972	Portland and blended cements
AS/NZS	
ISO 9001	Quality management systems—Requirements
ISO 9004	Quality management systems—Guidelines for performance improvements
SAI	
HB18	Guidelines for third-party certification and accreditation
HB18.28	Guide 28—General rules for a model third-party certification scheme for products
ASTM	
C465	Specification for Processing Additions for Use in the Manufacture of Hydraulic Cements