

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.

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
Pacific Power

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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

| | |
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| 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

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| ISO 9001 | Quality management systems—Requirements |
| ISO 9004 | Quality management systems — Guidelines for performance improvements |

SAI

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| HB18 | Guidelines for third-party certification and accreditation |
| HB18.28 | Guide 28—General rules for a model third-party certification scheme for products |

ASTM

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| C465 | Specification for Processing Additions for Use in the Manufacture of Hydraulic Cements |
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