

Cement Test Certificate

Final

Product Certified: Type GB General Blended Cement
Test Certificate Number: 210060
Produced At: Adelaide Brighton Cement, Birkenhead Plant, SA
Sample Code: B07f273
Sample Date: 19/01/2021

| Nominal Blend | Requirements | Result |
|---|--------------|--------|
| Clinker | | >55 % |
| Ground Granulated Iron Blast-Furnace Slag | Min 7.5 % | <35 % |
| Mineral Addition | | <7.5 % |
| Calcium Sulphate | | >5 % |
| Minor Additional Constituents | Max 5 % | <1 % |

| Reportable Property | Test Method | Requirements of AS3972 | Result |
|---|-------------|------------------------|----------|
| 3 Day Strength | AS2350.11 | N/R | 27.5 MPa |
| 7 Day Strength | AS2350.11 | Min 20.0 MPa | 40.4 MPa |
| 28 Day Strength | AS2350.11 | Min 35.0 MPa | 59.6 MPa |
| Initial Set Time | AS2350.4 | Min 45 min | 135 min |
| Final Set Time | AS2350.4 | Max 600 min | 195 min |
| Soundness | AS2350.5 | Max 5 mm | 0 mm |
| Sulfuric Anhydride content (SO ₃) | AS3583.8 | Max 3.5 % | 3.0 % |
| Chloride Ion | BH-TM-0507 | Max 0.10 % | 0.028 % |

Other Properties

| | | | |
|--------------------------------|----------|-----|------------------------|
| SiO ₂ | AS2350.2 | N/R | 24.3 % |
| Al ₂ O ₃ | AS2350.2 | N/R | 7.3 % |
| Fe ₂ O ₃ | AS2350.2 | N/R | 2.4 % |
| CaO | AS2350.2 | N/R | 55.7 % |
| MgO | AS2350.2 | N/R | 3.4 % |
| Na ₂ O Equivalent | AS2350.2 | N/R | 0.5 % |
| Loss on Ignition | AS2350.2 | N/R | 2.3 % |
| Fineness Index | AS2350.8 | N/R | 440 m ² /kg |
| Normal Consistency | AS2350.3 | N/R | 30.3 % |

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REMARKS

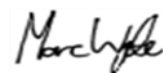
These test result apply specifically to the sample as received at the Adelaide Brighton Cement Birkenhead Laboratory (Accreditation number: 252), 62 Elder Rd Birkenhead SA 5015.

This despatch grab sample complies to the requirements of AS3972:2010, Type GB Cement.

N/R = No Requirement



Accredited for compliance with ISO/IEC 17025 - Testing. The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.



Approved Signatory

M. Wythe

Issue Date: 18/02/2021