



an ADBRI company  
ABN 50 006 673 470

# Test Certificate

Final

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**Product Certified:** Ground Granulated Blast Furnace Slag  
**Test Certificate Number:** 240211  
**Customer:** Cockburn Cement, Port Hedland Plant, WA  
**Sample Code:** B0a65d3  
**Sample Date:** 30/01/2024

| Nominal Blend                             | Requirements | Result |
|---|--------------|--------|
| Ground Granulated Iron Blast-Furnace Slag |              | >95 %  |
| Calcium Sulphate                          |              | <5 %   |
| Other Additions                           |              | <0.5 % |

| Reportable Property                         | Test Method | Requirements of AS3582.2 | Result       |
|---|-------------|--------------------------|--------------|
| Alumina (Al <sub>2</sub> O <sub>3</sub> )   | AS2350.2    | Max 18.0 %               | 19.0 %       |
| Total Iron (FeO)                            | AS2350.2    | N/R                      | 0.5 %        |
| Magnesia (MgO)                              | AS2350.2    | Max 15.0 %               | 13.4 %       |
| Total Alkali (Na <sub>2</sub> O Equivalent) | AS2350.2    | N/R                      | 0.5 %        |
| Manganese (MnO)                             | ASTM C114   | N/R                      | 0.3 %        |
| Sulfate (as SO <sub>3</sub> ) content       | AS3583.8    | N/R                      | 0.4 %        |
| Sulfide Sulfur (S)                          | AS3583.7    | Max 1.5 %                | 0.9 %        |
| Chloride Ion Content                        | AS3583.13   | Max 0.1 %                | 0.008 %      |
| Loss on Ignition                            | AS3583.3    | N/R                      | -0.1 %       |
| Insoluble Residue                           | AS3583.14   | N/R                      | 1.4 %        |
| 45 µm Residue                               | AS3583.1    | N/R                      | 98 % passing |
| Relative Density                            | AS3583.5    | N/R                      | 2.90         |
| Relative Water Requirement                  | AS3583.6    | N/R                      | 98 %         |
| Strength Index                              | AS3583.6    | N/R                      | 106 %        |

### Other Properties

|                  |              |     |                        |
|------------------|--------------|-----|------------------------|
| SiO <sub>2</sub> | AS2350.2     | N/R | 30.7 %                 |
| CaO              | AS2350.2     | N/R | 33.8 %                 |
| Fineness Index   | AS/NZS2350.8 | N/R | 420 m <sup>2</sup> /kg |

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### REMARKS

These test results apply specifically to the above designated sample as received at the Adbri Cement Birkenhead Laboratory (Accredited number: 252), 62 Elder Rd Birkenhead SA 5015.

For Relative Water and Strength Index testing the reference control used is Birkenhead GP code B0a6898.

N/R = No Requirement



Accredited for compliance with ISO/IEC  
17025 - Testing.

Approved Signatory

M. Wythe

Issue Date: 18/04/2024