

# Cement Test Certificate

Final

Lot 242 Russell Road East, Munster  
WA 6166  
PO Box 38, Hamilton Hill WA 6963  
T: +61 8 9411 1000  
F: +61 8 9411 1150  
www.cockburncement.com.au

**Product Certified:** Type GP Coarse General Purpose Cement  
**Test Certificate Number:** 250166  
**Customer:** Cockburn Cement, Kwinana Plant, WA  
**Sample Code:** B0b489a  
**Sample Date:** 13/02/2025

| Nominal Blend                             | Requirements | Result |
|-------------------------------------------|--------------|--------|
| Clinker                                   |              | >85 %  |
| Ground Granulated Iron Blast-Furnace Slag |              | Nil    |
| Mineral Addition                          | Max 7.5 %    | <7.5 % |
| Calcium Sulphate                          |              | 4-8 %  |
| Minor Additional Constituents             | Max 5 %      | <5 %   |

| Reportable Property                           | Test Method   | Requirements of AS3972 | Result   |
|-----------------------------------------------|---------------|------------------------|----------|
| 3 Day Strength                                | AS/NZS2350.11 | N/R                    | 39.9 MPa |
| 7 Day Strength                                | AS/NZS2350.11 | Min 35.0 MPa           | 45.7 MPa |
| 28 Day Strength                               | AS/NZS2350.11 | Min 45.0 MPa           | 64.3 MPa |
| Initial Set Time                              | AS/NZS2350.4  | Min 45 min             | 135 min  |
| Final Set Time                                | AS/NZS2350.4  | Max 360 min            | 210 min  |
| Soundness                                     | AS/NZS2350.5  | Max 5 mm               | 0 mm     |
| Sulfuric Anhydride content (SO <sub>3</sub> ) | AS2350.2      | Max 3.5 %              | 2.5 %    |
| Chloride Ion                                  | BH-TM-0507    | Max 0.10 %             | 0.029 %  |

## Other Properties

|                                |              |     |                        |
|--------------------------------|--------------|-----|------------------------|
| SiO <sub>2</sub>               | AS2350.2     | N/R | 18.8 %                 |
| Al <sub>2</sub> O <sub>3</sub> | AS2350.2     | N/R | 5.0 %                  |
| Fe <sub>2</sub> O <sub>3</sub> | AS2350.2     | N/R | 2.9 %                  |
| CaO                            | AS2350.2     | N/R | 63.9 %                 |
| MgO                            | AS2350.2     | N/R | 1.7 %                  |
| Na <sub>2</sub> O Equivalent   | AS2350.2     | N/R | 0.5 %                  |
| Loss on Ignition               | AS2350.2     | N/R | 4.3 %                  |
| Fineness Index                 | AS/NZS2350.8 | N/R | 385 m <sup>2</sup> /kg |
| Normal Consistency             | AS/NZS2350.3 | N/R | 28.6 %                 |

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## REMARKS

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

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

N/R = No Requirement