



ABN 96 007 870 199

**Adelaide Brighton Cement Ltd**  
Angaston Special Products

# Cement Test Certificate

Final

845 Stockwell Road, Angaston SA 5353

PO Box 229, Angaston SA 5353

T: +61 8 8561 3100

F: +61 8 8564 3019

www.adbri.com.au

**Product Certified:** Type HE Brightonlite Cement  
**Test Certificate Number:** 210052  
**Produced At:** Adelaide Brighton Cement, Angaston Plant, SA  
**Sample Code:** B07ef0c  
**Sample Date:** 4/01/2021

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

| Reportable Property                           | Test Method | Requirements of AS3972 | Result   |
|---|-------------|------------------------|----------|
| 3 Day Strength                                | AS2350.11   | Min 25.0 MPa           | 40.5 MPa |
| 7 Day Strength                                | AS2350.11   | Min 40.0 MPa           | 50.1 MPa |
| 28 Day Strength                               | AS2350.11   | N/R                    | 61.9 MPa |
| Initial Set Time                              | AS2350.4    | Min 45 min             | 90 min   |
| Final Set Time                                | AS2350.4    | Max 360 min            | 150 min  |
| Soundness                                     | AS2350.5    | Max 5 mm               | 1 mm     |
| Sulfuric Anhydride content (SO <sub>3</sub> ) | AS2350.2    | Max 3.5 %              | 2.6 %    |
| Chloride Ion                                  | AS3583.13   | Max 0.10 %             | 0.002 %  |

### Other Properties

|                                |            |     |                        |
|--------------------------------|------------|-----|------------------------|
| SiO <sub>2</sub>               | AS2350.2   | N/R | 21.1 %                 |
| Al <sub>2</sub> O <sub>3</sub> | AS2350.2   | N/R | 4.8 %                  |
| Fe <sub>2</sub> O <sub>3</sub> | AS2350.2   | N/R | 0.6 %                  |
| CaO                            | AS2350.2   | N/R | 65.7 %                 |
| MgO                            | AS2350.2   | N/R | 1.0 %                  |
| Na <sub>2</sub> O Equivalent   | AS2350.2   | N/R | 0.4 %                  |
| Loss on Ignition               | AS2350.2   | N/R | 4.0 %                  |
| Fineness Index                 | AS2350.8   | N/R | 445 m <sup>2</sup> /kg |
| Normal Consistency             | AS2350.3   | N/R | 29.1 %                 |
| Brightness (L)*                | BH-TM-0552 | N/R | 72                     |

*This document shall not be reproduced except in full.*

### 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 HE Cement.

\* NATA Accreditation No 252 does not cover the performance of this service.

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: 15/02/2021