

Cement Test Certificate

Final

Product Certified: Type HE Brightonlite Cement
Test Certificate Number: 230637
Customer: Adbri Cement, Angaston Plant, SA
Sample Code: B0a1fd1
Sample Date: 6/10/2023

| 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 | Min 25.0 MPa | 41.3 MPa |
| 7 Day Strength | AS/NZS2350.11 | Min 40.0 MPa | 47.0 MPa |
| 28 Day Strength | AS/NZS2350.11 | N/R | 59.8 MPa |
| Initial Set Time | AS/NZS2350.4 | Min 45 min | 105 min |
| Final Set Time | AS/NZS2350.4 | Max 360 min | 120 min |
| Soundness | AS/NZS2350.5 | Max 5 mm | 1 mm |
| Sulfuric Anhydride content (SO ₃) | AS2350.2 | Max 3.5 % | 2.5 % |
| Chloride Ion | AS3583.13 | Max 0.10 % | 0.001 % |

| Other Properties | | | |
|--------------------------------|--------------|-----|------------------------|
| SiO ₂ | AS2350.2 | N/R | 21.4 % |
| Al ₂ O ₃ | AS2350.2 | N/R | 4.9 % |
| Fe ₂ O ₃ | AS2350.2 | N/R | 0.6 % |
| CaO | AS2350.2 | N/R | 65.9 % |
| MgO | AS2350.2 | N/R | 0.9 % |
| Na ₂ O Equivalent | AS2350.2 | N/R | 0.3 % |
| Loss on Ignition | AS2350.2 | N/R | 3.4 % |
| Fineness Index | AS/NZS2350.8 | N/R | 430 m ² /kg |
| Normal Consistency | AS/NZS2350.3 | N/R | 29.3 % |
| Brightness (L)* | BH-TM-0552 | N/R | 73 |

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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.

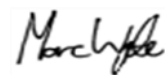
This despatch grab sample complies to the requirements of AS3972:2010, Type HE Cement.

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

N/R = No Requirement



Accredited for compliance with ISO/IEC
17025 - Testing.



Approved Signatory

M. Wythe

Issue Date: 14/12/2023