

Product Certified: Type LH Low Heat Cement
Test Certificate Number: 220449
Customer: Northern Cement, Darwin Plant, NT
Sample Code: B0946cc
Sample Date: 06/10/2022

| Nominal Blend | Requirements | Result |
|---|--------------|--------|
| Clinker | | 30% |
| Ground Granulated Iron Blast-Furnace Slag | | 65% |
| Mineral Addition | Max 7.5 % | Nil |
| Calcium Sulphate | | <5 % |
| Minor Additional Constituents | Max 5 % | Nil |

| Reportable Property | Test Method | Requirements of AS3972 | Result |
|---|---------------|------------------------|----------|
| 3 Day Strength | AS/NZS2350.11 | N/R | 14.0 MPa |
| 7 Day Strength | AS/NZS2350.11 | Min 10.0 MPa | 27.2 MPa |
| 28 Day Strength | AS/NZS2350.11 | Min 30.0 MPa | 49.5 MPa |
| Initial Set Time | AS/NZS2350.4 | Min 45 min | 165 min |
| Final Set Time | AS/NZS2350.4 | Max 600 min | 225 min |
| Soundness | AS/NZS2350.5 | Max 5 mm | 1 mm |
| Sulfuric Anhydride content (SO ₃) | AS3583.8 | Max 3.5 % | 2.9 % |
| Chloride Ion | AS3583.13 | Max 0.10 % | 0.006 % |
| Peak Temp Rise | AS2350.7 | Max 23 °C | 22.9 °C |

Other Properties

| | | | |
|--------------------------------|--------------|-----|------------------------|
| SiO ₂ | AS2350.2 | N/R | 28.7 % |
| Al ₂ O ₃ | AS2350.2 | N/R | 9.8 % |
| Fe ₂ O ₃ | AS2350.2 | N/R | 1.8 % |
| CaO | AS2350.2 | N/R | 50.2 % |
| MgO | AS2350.2 | N/R | 4.1 % |
| Na ₂ O Equivalent | AS2350.2 | N/R | 0.5 % |
| Loss on Ignition | AS2350.2 | N/R | 0.6 % |
| Fineness Index | AS/NZS2350.8 | N/R | 390 m ² /kg |
| Normal Consistency | AS/NZS2350.3 | N/R | 33.8 % |

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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 LH Cement.

N/R = No Requirement



Accredited for compliance with ISO/IEC
17025 - Testing.

M. Wythe

Approved Signatory

M. Wythe

Issue Date: 30/12/2022