

Product Certified: Type GP General Purpose Cement
Test Certificate Number: 230242
Customer: Northern Cement, Darwin Plant, NT
Sample Code: B09c03c
Sample Date: 04/05/2023

| Nominal Blend | Requirements | Result |
|---|--------------|---------|
| Clinker | | >86.5 % |
| Ground Granulated Iron Blast-Furnace Slag | | Nil |
| Mineral Addition | Max 7.5 % | <7.5 % |
| 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 | 36.8 MPa |
| 7 Day Strength | AS/NZS2350.11 | Min 35.0 MPa | 50.5 MPa |
| 28 Day Strength | AS/NZS2350.11 | Min 45.0 MPa | 64.6 MPa |
| Initial Set Time | AS/NZS2350.4 | Min 45 min | 120 min |
| Final Set Time | AS/NZS2350.4 | Max 360 min | 180 min |
| Soundness | AS/NZS2350.5 | Max 5 mm | 1 mm |
| Sulfuric Anhydride content (SO ₃) | AS2350.2 | Max 3.5 % | 2.8 % |
| Chloride Ion | BH-TM-0507 | Max 0.10 % | 0.003 % |

Other Properties

| | | | |
|--------------------------------|--------------|-----|------------------------|
| SiO ₂ | AS2350.2 | N/R | 19.8 % |
| Al ₂ O ₃ | AS2350.2 | N/R | 5.4 % |
| Fe ₂ O ₃ | AS2350.2 | N/R | 3.3 % |
| CaO | AS2350.2 | N/R | 63.9 % |
| MgO | AS2350.2 | N/R | 1.1 % |
| Na ₂ O Equivalent | AS2350.2 | N/R | 0.4 % |
| Loss on Ignition | AS2350.2 | N/R | 2.4 % |
| Fineness Index | AS/NZS2350.8 | N/R | 330 m ² /kg |
| Normal Consistency | AS/NZS2350.3 | N/R | 29.3 % |

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 GP Cement.

N/R = No Requirement



Accredited for compliance with ISO/IEC 17025 - Testing.

M. Wythe

Approved Signatory

M. Wythe

Issue Date: 23/06/2023