



ABN 50 006 673 470

Cement Test Certificate

Final

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Product Certified: Type HE High Early Strength Cement (Crème)
Test Certificate Number: 230241
Customer: Cockburn Cement, Kwinana Plant, WA
Sample Code: B09b44c
Sample Date: 02/05/2023

Nominal Blend	Requirements	Result
Clinker		>86.5 %
Ground Granulated Iron Blast-Furnace Slag		Nil
Mineral Addition	Max 7.5 %	<5 %
Calcium Sulphate		<5 %
Minor Additional Constituents	Max 5 %	Nil

Reportable Property	Test Method	Requirements of AS3972	Result
3 Day Strength	AS/NZS2350.11	Min 25.0 MPa	37.6 MPa
7 Day Strength	AS/NZS2350.11	Min 40.0 MPa	48.3 MPa
28 Day Strength	AS/NZS2350.11	N/R	56.6 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 %	3.1 %
Chloride Ion	BH-TM-0507	Max 0.10 %	0.018 %

Other Properties

SiO ₂	AS2350.2	N/R	21.5 %
Al ₂ O ₃	AS2350.2	N/R	3.6 %
Fe ₂ O ₃	AS2350.2	N/R	0.4 %
CaO	AS2350.2	N/R	64.0 %
MgO	AS2350.2	N/R	1.6 %
Na ₂ O Equivalent	AS2350.2	N/R	0.5 %
Loss on Ignition	AS2350.2	N/R	5.0 %
Fineness Index	AS/NZS2350.8	N/R	425 m ² /kg
Normal Consistency	AS/NZS2350.3	N/R	27.8 %
Brightness (L)*	MU-TM-2614	N/R	87

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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 HE Cement.

*NATA accreditation 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: 23/06/2023