



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: 230047
Customer: Cockburn Cement, Kwinana Plant, WA
Sample Code: B0949c3
Sample Date: 8/11/2022

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	36.2 MPa
7 Day Strength	AS/NZS2350.11	Min 40.0 MPa	42.6 MPa
28 Day Strength	AS/NZS2350.11	N/R	55.8 MPa
Initial Set Time	AS/NZS2350.4	Min 45 min	105 min
Final Set Time	AS/NZS2350.4	Max 360 min	150 min
Soundness	AS/NZS2350.5	Max 5 mm	2 mm
Sulfuric Anhydride content (SO ₃)	AS2350.2	Max 3.5 %	3.3 %
Chloride Ion	BH-TM-0507	Max 0.10 %	0.011 %

Other Properties			
SiO ₂	AS2350.2	N/R	21.2 %
Al ₂ O ₃	AS2350.2	N/R	3.7 %
Fe ₂ O ₃	AS2350.2	N/R	0.3 %
CaO	AS2350.2	N/R	64.4 %
MgO	AS2350.2	N/R	1.7 %
Na ₂ O Equivalent	AS2350.2	N/R	0.6 %
Loss on Ignition	AS2350.2	N/R	4.3 %
Fineness Index	AS/NZS2350.8	N/R	425 m ² /kg
Normal Consistency	AS/NZS2350.3	N/R	28.3 %
Brightness (L)*	MU-TM-2614	N/R	88

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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: 7/02/2023