



ABN 50 006 673 470

Cement Test Certificate

Final

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Product Certified: Type LH Low Heat Cement
Test Certificate Number: 230259
Customer: Cockburn Cement, Kwinana Plant, WA
Sample Code: B09b44b
Sample Date: 02/05/2023

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	20.5 MPa
7 Day Strength	AS/NZS2350.11	Min 10.0 MPa	31.3 MPa
28 Day Strength	AS/NZS2350.11	Min 30.0 MPa	53.8 MPa
Initial Set Time	AS/NZS2350.4	Min 45 min	195 min
Final Set Time	AS/NZS2350.4	Max 600 min	285 min
Soundness	AS/NZS2350.5	Max 5 mm	1 mm
Sulfuric Anhydride content (SO ₃)	AS3583.8	Max 3.5 %	2.2 %
Chloride Ion	BH-TM-0507	Max 0.10 %	0.015 %
Peak Temp Rise	AS2350.7	Max 23 °C	20.9 °C

Other Properties

SiO ₂	AS2350.2	N/R	27.1 %
Al ₂ O ₃	AS2350.2	N/R	9.3 %
Fe ₂ O ₃	AS2350.2	N/R	1.7 %
CaO	AS2350.2	N/R	51.7 %
MgO	AS2350.2	N/R	3.8 %
Na ₂ O Equivalent	AS2350.2	N/R	0.4 %
Loss on Ignition	AS2350.2	N/R	2.0 %
Fineness Index	AS/NZS2350.8	N/R	385 m ² /kg
Normal Consistency	AS/NZS2350.3	N/R	32.6 %

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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: 29/06/2023