



ABN 50 006 673 470

# Cement Test Certificate

Final

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**Product Certified:** Type HE High Early Strength Cement (Creme)  
**Test Certificate Number:** 180873  
**Produced At:** Cockburn Cement, Kwinana Plant, WA  
**Sample Code:** B0679d0  
**Sample Date:** 2/10/2018

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	AS2350.11	Min 25.0 MPa	43.0 MPa
7 Day Strength	AS2350.11	Min 40.0 MPa	53.2 MPa
28 Day Strength	AS2350.11	N/R	61.0 MPa
Initial Set Time	AS2350.4	Min 45 min	105 min
Final Set Time	AS2350.4	Max 360 min	165 min
Soundness	AS2350.5	Max 5 mm	2 mm
Sulfuric Anhydride content (SO <sub>3</sub> )	AS2350.2	Max 3.5 %	3.4 %
Chloride Ion	BH-TM-0507	Max 0.10 %	0.011 %

<b>Other Properties</b>			
SiO <sub>2</sub>	AS2350.2	N/R	22.0 %
Al <sub>2</sub> O <sub>3</sub>	AS2350.2	N/R	3.7 %
Fe <sub>2</sub> O <sub>3</sub>	AS2350.2	N/R	0.4 %
CaO	AS2350.2	N/R	64.7 %
MgO	AS2350.2	N/R	1.1 %
Na <sub>2</sub> O Equivalent	AS2350.2	N/R	0.6 %
Loss on Ignition	AS2350.2	N/R	4.0 %
Fineness Index	AS2350.8	N/R	415 m <sup>2</sup> /kg
Normal Consistency	AS2350.3	N/R	27.8 %
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. The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Approved Signatory

F. Pope

**Issue Date:** 19/11/2018