

## **Cement Test Certificate**

Final

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www.cockburncement.com.au

**Product Certified:** Type LH Low Heat Cement

**Test Certificate Number:** 190414

Produced At: Cockburn Cement, Kwinana Plant, WA

Sample Code: B06ea88
Sample Date: 3/07/2019

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

Panartable Droperty	Toot Mothod	Requirements of	Posult	
Reportable Property	Test Method	AS3972	Result	
3 Day Strength	AS2350.11	N/R	14.0 MPa	
7 Day Strength	AS2350.11	Min 10.0 MPa	30.8 MPa	
28 Day Strength	AS2350.11	Min 30.0 MPa	54.2 MPa	
Initial Set Time	AS2350.4	Min 45 min	180 min	
Final Set Time	AS2350.4	Max 600 min	270 min	
Soundness	AS2350.5	Max 5 mm	0 mm	
Sulfuric Anhydride content (SO <sub>3</sub> )	AS3583.8	Max 3.5 %	2.3 %	
Chloride Ion	BH-TM-0507	Max 0.10 %	0.010 %	
Peak Temp Rise	AS2350.7	Max 23 °C	21.2 °C	
Other Properties				
SiO <sub>2</sub>	AS2350.2	N/R	30.8 %	
$Al_2O_3$	AS2350.2	N/R	10.8 %	
$Fe_2O_3$	AS2350.2	N/R	1.6 %	
CaO	AS2350.2	N/R	48.0 %	
MgO	AS2350.2	N/R	5.2 %	
Na <sub>2</sub> O Equivalent	AS2350.2	N/R	0.5 %	
Loss on Ignition	AS2350.2	N/R	0.4 %	
Fineness Index	AS2350.8	N/R	400 m <sup>2</sup> /kg	
Normal Consistency	AS2350.3	N/R	32.8 %	

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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. 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:** 5/09/2019