



ABN 50 006 673 470

# Cement Test Certificate

Final

Lot 242 Russell Road East,  
Munster WA 6166  
PO Box 38, Hamilton Hill WA 6963  
T: +61 8 9411 1000  
F: +61 8 9411 1150  
[www.cockburncement.com.au](http://www.cockburncement.com.au)

**Product Certified:** Type LH Low Heat Cement  
**Test Certificate Number:** 230356  
**Customer:** Cockburn Cement, Kwinana Plant, WA  
**Sample Code:** B09cd10  
**Sample Date:** 07/06/2023

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	19.2 MPa
7 Day Strength	AS/NZS2350.11	Min 10.0 MPa	30.6 MPa
28 Day Strength	AS/NZS2350.11	Min 30.0 MPa	54.5 MPa
Initial Set Time	AS/NZS2350.4	Min 45 min	180 min
Final Set Time	AS/NZS2350.4	Max 600 min	285 min
Soundness	AS/NZS2350.5	Max 5 mm	0 mm
Sulfuric Anhydride content (SO <sub>3</sub> )	AS3583.8	Max 3.5 %	2.5 %
Chloride Ion	BH-TM-0507	Max 0.10 %	0.009 %
Peak Temp Rise	AS2350.7	Max 23 °C	21.2 °C

### Other Properties

SiO <sub>2</sub>	AS2350.2	N/R	27.4 %
Al <sub>2</sub> O <sub>3</sub>	AS2350.2	N/R	9.5 %
Fe <sub>2</sub> O <sub>3</sub>	AS2350.2	N/R	1.7 %
CaO	AS2350.2	N/R	51.8 %
MgO	AS2350.2	N/R	4.0 %
Na <sub>2</sub> O Equivalent	AS2350.2	N/R	0.4 %
Loss on Ignition	AS2350.2	N/R	1.8 %
Fineness Index	AS/NZS2350.8	N/R	375 m <sup>2</sup> /kg
Normal Consistency	AS/NZS2350.3	N/R	32.6 %

*This document shall not be reproduced except in full.*

### REMARKS

These test result apply specifically to the sample as received at the Adbri 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: 11/08/2023