

## **Cement Test Certificate**

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

Final

ABN 50 006 673 470

Product Certified: Test Certificate Number: Produced At: Sample Code: Sample Date: Type HE High Early Strength Cement 210371 Cockburn Cement, Munster Plant, WA 8086914 07/09/2021

Nominal Blend	Requirements	Result
Clinker		>90 %
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
7 Day Strength	AS2350.11	Min 40.0 MPa	55.0 MPa
28 Day Strength	AS2350.11	N/R	65.2 MPa
Initial Set Time	AS2350.4	Min 45 min	120 min
Final Set Time	AS2350.4	Max 360 min	180 min
Soundness	AS2350.5	Max 5 mm	1 mm
Sulfuric Anhydride content (SO <sub>3</sub> )	AS2350.2	Max 3.5 %	3.1 %
Chloride Ion	BH-TM-0507	Max 0.10 %	0.014 %
Other Properties			
SiO <sub>2</sub>	AS2350.2	N/R	19.9 %
Al <sub>2</sub> O <sub>3</sub>	AS2350.2	N/R	5.5 %
Fe <sub>2</sub> O <sub>3</sub>	AS2350.2	N/R	2.7 %
CaO	AS2350.2	N/R	62.5 %
MgO	AS2350.2	N/R	1.5 %
Na <sub>2</sub> O Equivalent	AS2350.2	N/R	0.6 %
Loss on Ignition	AS2350.2	N/R	3.3 %
Fineness Index	AS2350.8	N/R	465 m²/kg
Normal Consistency	AS2350.3	N/R	30.5 %

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

## 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. 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.

Marchife

Approved Signatory M. Wythe

Issue Date:

18/10/2021