

## **Cement Test Certificate**

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ABN 22 009 593 515

## Final

Type GP General Purpose Cement

Product Certified:

1100		.,pe ei e	seneral r arpose dement	
Test 0	Certificate Number:	190433		
Produ	uced At:	Northern C	Cement, Darwin Plant, NT	
Samp	le Code:	B06fc81		
Samp	le Date:	8/08/2019		
Nominal Blend		Requirements	Result	
Clinker				>86.5 %
Ground Granulated Iron Blast-Furnace Slag				Nil
Mineral Addition			Max 7.5 %	<7.5 %
Calcium Sulphate				<5 %
Minor Additional Constituents			Max 5 %	Nil
Deve ente ble. Deve e	Tast	Test Method	Requirements of	Result
Reportable Prope	rty lest	iviethod	AS3972	
3 Day Strength	AS	2350.11	N/R	37.7 MPa
7 Day Strength	AS	2350.11	Min 35.0 MPa	51.6 MPa
28 Day Strength	AS	2350.11	Min 45.0 MPa	63.8 MPa
Initial Set Time	AS	2350.4	Min 45 min	135 min
Final Set Time	AS	2350.4	Max 360 min	195 min
Soundness	AS	2350.5	Max 5 mm	1 mm
Sulfuric Anhydride content (SO <sub>3</sub> )	AS	2350.2	Max 3.5 %	3.1 %
Chloride Ion	BH	-TM-0507	Max 0.10 %	0.012 %
Other Properties				
SiO <sub>2</sub>	AS	2350.2	N/R	20.2 %
Al <sub>2</sub> O <sub>3</sub>	AS	2350.2	N/R	5.6 %
Fe <sub>2</sub> O <sub>3</sub>	AS	2350.2	N/R	2.9 %
CaO	AS	2350.2	N/R	63.5 %
MgO	AS	2350.2	N/R	1.6 %
Na <sub>2</sub> O Equivalent	AS	2350.2	N/R	0.6 %
Loss on Ignition	AS	2350.2	N/R	2.1 %

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AS2350.8

AS2350.3

## REMARKS

**Fineness Index** 

Normal Consistency

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 GP 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

355 m²/kg

28.8 %

Issue Date:

N/R

N/R

19/09/2019