

**Product Certified:** Type GP General Purpose Cement  
**Test Certificate Number:** 170754  
**Produced At:** Northern Cement, Darwin Plant, NT  
**Sample Code:** B05f800  
**Sample Date:** 16/11/2017

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


Reportable Property	Test Method	Requirements of AS3972	Result
3 Day Strength	AS2350.11	N/R	39.3 MPa
7 Day Strength	AS2350.11	Min 35.0 MPa	48.7 MPa
28 Day Strength	AS2350.11	Min 45.0 MPa	64.8 MPa
Initial Set Time	AS2350.4	Min 45 min	135 min
Final Set Time	AS2350.4	Max 360 min	195 min
Soundness	AS2350.5	Max 5 mm	0 mm
Sulfuric Anhydride content (SO <sub>3</sub> )	AS2350.2	Max 3.5 %	2.9 %
Chloride Ion	BH-TM-0507	Max 0.10 %	0.009 %

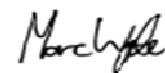
<b>Other Properties</b>			
SiO <sub>2</sub>	AS2350.2	N/R	19.8 %
Al <sub>2</sub> O <sub>3</sub>	AS2350.2	N/R	5.3 %
Fe <sub>2</sub> O <sub>3</sub>	AS2350.2	N/R	2.8 %
CaO	AS2350.2	N/R	64.3 %
MgO	AS2350.2	N/R	1.4 %
Na <sub>2</sub> O Equivalent	AS2350.2	N/R	0.6 %
Loss on Ignition	AS2350.2	N/R	2.6 %
Fineness Index	AS2350.8	N/R	350 m <sup>2</sup> /kg
Normal Consistency	AS2350.3	N/R	28.8 %

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**REMARKS**

These test results apply specifically to the above designated sample as received for the date shown.  
 Adelaide Brighton Cement Birkenhead Laboratory (Accredited number: 252), 62 Elder Rd Birkenhead 5015, is responsible for testing in accordance with AS2350.2:2006, AS2350.8:2006 and in-house method BH-TM-0507.  
 Adelaide Brighton Cement Angaston Laboratory (Accredited number: 73), Stockwell Rd Angaston 5353, is responsible for testing in accordance with AS2350.3:2006, AS2350.4:2006, AS2350.5:2006, AS2350.11:2006 and AS2350.12:2006.  
 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

M. Wythe

Issue Date: 28/12/2017