

## **Test Certificate**

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Result

>95 %

<5 %

Final

Product Certified: Test Certificate Number: Despatched From: Sample Code: Sample Date: Ground Granulated Blast Furnace Slag 180254 Cockburn Cement, Port Hedland Plant, WA B060f68 17/01/2018

Requirements

Nominal Blend Ground Granulated Iron Blast-Furnace Slag

Calcium Sulphate

<b>Reportable Property</b>	Test Method	Requirements of AS3582.2	Result
Total Iron (FeO)	AS2350.2	N/R	0.3 %
Magnesia (MgO)	AS2350.2	Max 15.0 %	10.3 %
Total Alkali (Na <sub>2</sub> O Equivalent)	AS2350.2	N/R	0.6 %
Manganese (MnO)	ASTM C114	N/R	0.6 %
Sulfate (as SO <sub>3</sub> ) content	AS3583.8	N/R	0.6 %
Sulfide Sulfur (S)	AS3583.7	Max 1.5 %	0.8 %
Chloride Ion Content	A\$3583.13	Max 0.1 %	0.008 %
Loss on Ignition	A\$3583.3	N/R	-0.5 %
Insoluble Residue	AS3583.14	N/R	0.2 %
45 μm Residue	AS3583.1	N/R	98 % passing
Relative Density	A\$3583.5	N/R	2.91
Relative Water Requirement	A\$3583.6	N/R	100 %
Strength Index	AS3583.6	N/R	106 %
Other Properties			
SiO <sub>2</sub>	AS2350.2	N/R	32.0 %
CaO	AS2350.2	N/R	37.7 %
Fineness Index	AS2350.8	N/R	395 m²/kg

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## REMARKS

These test results apply specifically to the above designated sample as received at the Adelaide Brighton Cement Birkenhead Laboratory (Accredited number: 252), 62 Elder Rd Birkenhead SA 5015.

For Relative Water and Strength Index testing the reference control used is Birkenhead GP code B06120b.

This despatch grab sample complies to the requirements of AS3582.2:2016, Ground Granulated Blast Furnace Slag. 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

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26/03/2018