



STANDARD FLY ASH CERTIFICATE

FINAL
Prior Reports: None

Independent Flyash Brokers Pty Ltd

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Certificate Number: CERT191438
Issued: 31 July 2019

Product being certified: Independent Flyash Broker Monthly Grab Fly Ash
Product sample date: 20-Jun-2019
Sample Identification: Sample Code: 19061304
Source Power Station: Millmerran Power Station
Sample Condition: Tested as Received. Testing Commenced on 25-Jun-2019
Certifying Laboratory: Cement Australia - Darra Laboratory,
18 Station Avenue, Darra Queensland 4076 Australia.

Test Results

Test	Moisture %	Fineness @ 45 micron % Passed	Loss on Ignition %	Sulfuric Anhydride %	Available Alkali %	Chloride Ion %	Chemical Composition %
Result	< 0.1	85	0.2	0.1	Not Tested	<0.001	94.2
Test Method	AS3583.2	AS3583.1	AS3583.3	AS2350.2	AS3583.12	AS3583.13	AS2350.2
AS 3582.1	0.5% Maximum	75% Minimum	4.0 % Maximum	3.0% Maximum	-	0.1 % Maximum	70% Minimum

Test	Relative Density	Relative Water Requirement %	Strength Index %	Reference Cement Details
Result	1.92	92	90	Identification:: 19061432 Source: 2019 Concrete Reference
Test Method	AS3583.5	AS3583.6	AS3583.6	Product Type: Type GP
AS 3582.1	-	-	75% Minimum	Sample Date: 28-Jun-19

Additional Testing - Oxides

Test	CaO by XRF %	SiO ₂ by XRF %	Al ₂ O ₃ by XRF %	Fe ₂ O ₃ by XRF %	SO ₃ by XRF %	MgO by XRF %	Na ₂ O by XRF %
Result	2.2	58.9	32.3	3.0	0.1	0.8	0.41
Test Method	AS2350.2	AS2350.2	AS2350.2	AS2350.2	AS2350.2	AS2350.2	AS2350.2

Test	K ₂ O by XRF %	SrO by XRF %	TiO ₂ by XRF %	P ₂ O ₅ by XRF %	Mn ₂ O ₃ by XRF %	Total Alkali (NaEQ) %
Result	0.70	<0.1	1.6	0.2	< 0.1	0.87
Test Method	AS2350.2	AS2350.2	AS2350.2	AS2350.2	AS2350.2	AS2350.2

This sample grade conforms to the following requirements of AS 3582.1:2016

Special	Grade 1	Grade 2
	X	

Approved Signatory



A Prem
Signatory - Cement Australia
Chemical Testing
Construction Materials Testing

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.

Cement Australia - Darra Laboratory
NATA Accredited Laboratory Numbers
187 188



ACCREDITED FOR
**TECHNICAL
COMPETENCE**

Notes:

