

STANDARD FLY ASH CERTIFICATE



FINAL
Prior Reports:
 CERT191786

Independent Flyash Brokers Pty Ltd

Head Office
 431 Moffatt Reserve
 Millmerran QLD 4357
 Tel : (07) 4695 6033
 Fax: (07) 4695 6133
 www.mflyash.com.au

Certificate Number: CERT191831
Issued: 02 October 2019

Product being certified: Independent Flyash Broker Monthly Grab Fly Ash
Product sample date: 02-Aug-2019
Sample Identification: Sample Code: 19080950
Source Power Station: Millmerran Power Station
Sample Condition: Tested as Received. Testing Commenced on 22-Aug-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	88	< 0.1	< 0.1	Not Tested	<0.001	95.7
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 7 Day Acc. %	Reference Cement Details
Result	1.96	93	91	Identification: 19081342 Source: Goliath GP
Test Method	AS3583.5	AS3583.6	AS3583.6	Product Type: Type GP Sample Date: 30-Jul-19
AS 3582.1	-	-	75% Minimum	

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	0.8	58.6	33.9	3.2	< 0.1	0.9	0.23
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	0.72	<0.1	1.5	0.2	< 0.1	0.70
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



Notes:

