STANDARD FLY ASH CERTIFICATE



FINAL
Prior Reports: None

Certificate Number: CERT212610

Issued: 15 September 2021

Flyash Australia Pty Ltd
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Product being certified: Collie Monthly Grab Fly Ash

Product sample date: 19-Aug-2021

Sample Identification: Sample Code: 21081120
Source Power Station: Collie Power Station

Sample Condition: Tested as Received. Testing Commenced on 30-Aug-2021

Certifying Laboratory: Cement Australia - Darra Laboratory,

18 Station Avenue, Darra Queensland 4076 Australia.

Test Results

Test	Moisture	Fineness @ 45 micron	Loss on Ignition	Sulfuric Anhydride	Available Alkali	Chloride Ion	Chemical Composition
	%	% Passed	%	%	%	%	%
Result	< 0.1	83	0.5	0.2	n/a	< 0.001	94.4
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	
		%	%	Identification:: 21081189	
Result	2.52	94	110	Source: Goliath GP	
Test Method	AS3583.5	AS3583.6	AS3583.6	Product Type: Type GP	
AS 3582.1	-	-	75% Minimum	Sample Date: 31-Aug-21	

Additional Testing - Oxides

Test	CaO by XRF %	SiO ₂ by XRF %	Al ₂ O ₃ by XRF %	Fe ₂ O ₃ by XRF %	SO₃ by XRF %	MgO by XRF %	Na ₂ O by XRF %
Result	0.9	55.8	27.8	10.8	0.2	0.9	0.26
Test Method	AS2350.2	AS2350.2	AS2350.2	AS2350.2	AS2350.2	AS2350.2	AS2350.2

Test	K₂O by XRF	SrO by XRF	TiO2 by XRF	P ₂ O ₅ by XRF	Mn₂O₃ by XRF	Total Alkali (NaEQ)
	%	%	%	%	%	%
Result	0.40	0.1	1.8	1.0	< 0.1	0.52
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
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Approved Signatory

A Prem Signatory - Cement Australia Chemical Testing

Construction Materials Testing

17025 - Testing. The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Accredited for compliance with ISO/IEC

Cement Australia - Darra Laboratory NATA Accredited Laboratory Numbers 187 188







Notes:

Page 1 of 1