## STANDARD FLY ASH CERTIFICATE



**FINAL Prior Reports: None** 

Certificate Number: CERT210312

Issued: 17 February 2021

ABN 68 002 840 271 **Head Office** C/- Lindfield Corporate Centre Suite 18, 12 Tryon Road Lindfield NSW 2070

Flyash Australia Pty Ltd

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Product being certified: Mt Piper Monthly Grab Fly Ash

01-Feb-2021 Product sample date:

Sample Code: 21020157 Sample Identification: Source Power Station: Mount Piper Power Station

Sample Condition: Tested as Received. Testing Commenced on 03-Feb-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	1.3	0.1	n/a	< 0.001	93.5
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:: 21020205	
Result	2.15	94	100	Source: Goliath GP	
Test Method	AS3583.5	AS3583.6	AS3583.6	Product Type: Type GP	
AS 3582.1	-	-	75% Minimum	Sample Date: 04-Feb-21	

**Additional Testing - Oxides** 

Tes	st	CaO by XRF %	SiO <sub>2</sub> by XRF	Al <sub>2</sub> O <sub>3</sub> by XRF %	Fe <sub>2</sub> O <sub>3</sub> by XRF %	SO <sub>3</sub> by XRF %	MgO by XRF %	Na <sub>2</sub> O by XRF %	
Res	sult	1.0	65.4	24.4	3.7	0.1	0.3	0.38	Ī
Tes	st Method	AS2350.2	AS2350.2	AS2350.2	AS2350.2	AS2350.2	AS2350.2	AS2350.2	Ī

Test	K₂O by XRF	SrO by XRF	TiO2 by XRF	P <sub>2</sub> O <sub>5</sub> by XRF	Mn₂O₃ by XRF	Total Alkali (NaEQ)
	%	%	%	%	%	%
Result	2.56	<0.1	0.9	0.3	< 0.1	2.06
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** 

Signatory - Cement Australia Chemical Testing Construction Materials Testing

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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:

