## STANDARD FLY ASH CERTIFICATE



FINAL
Prior Reports: None

Certificate Number: CERT201369

**Issued: 25 June 2020** 

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Product being certified: Mundra Monthly Grab Fly Ash

Product sample date: 02-Jun-2020

Sample Identification: Sample Code: 20060309

Source Power Station: Imported Ash

Sample Condition: Tested as Received. Testing Commenced on 08-Jun-2020

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	88	0.9	0.1	n/a	0.001	92.7
Test Method	AS3583.2	AS3583.1	AS3583.3	AS2350.2	AS3583.12	AS3583.13	AS2350.2
AS 3582.1	0.5 % Maximum	85% Minimum	3.0 % Maximum	3.0 % Maximum	-	0.1 % Maximum	70% Minimum

Test	Relative Density	Relative Water Requirement	Strength Index 7 Day Acc.	Reference Cement Details	
		%	%	Identification:: 20060398	
Result	2.34	91	116	Source: Goliath GP	
Test Method	AS3583.5	AS3583.6	AS3583.6	Product Type: Type GP	
AS 3582.1	-	-	Exceeds 105%	Sample Date: 09-Jun-20	

**Additional Testing - Oxides** 

Т	est	CaO by XRF %	SiO <sub>2</sub> by XRF %	Al₂O₃ 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 %	
R	esult	3.3	58.0	26.3	8.4	0.1	1.0	0.33	1
Te	est 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	0.80	<0.1	1.4	0.5	0.1	0.86
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
Х	Х	

**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:

