

STANDARD FLY ASH CERTIFICATE



FINAL
Prior Reports: None

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Certificate Number: CERT202331
Issued: 20 October 2020

Product being certified: Mundra Monthly Grab Fly Ash
Product sample date: 01-Oct-2020
Sample Identification: Sample Code: 20100167
Source Power Station: Imported Ash
Sample Condition: Tested as Received. Testing Commenced on 07-Oct-2020
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	0.2	1.0	n/a	0.003	75.8
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
Result	2.69	85	127	Identification:: 20100293 Source: Goliath GP
Test Method	AS3583.5	AS3583.6	AS3583.6	Product Type: Type GP
AS 3582.1	-	-	Exceeds 105%	Sample Date: 08-Oct-20

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	12.1	44.3	19.0	12.5	1.0	6.2	1.68
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	1.58	<0.1	0.8	0.3	0.1	2.72
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	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:

