STANDARD FLY ASH CERTIFICATE



FINAL

Prior Reports: None

Certificate Number: CERT210186 Issued: 21 January 2021 Flyash Australia Pty Ltd ABN 68 002 840 271 Head Office C/- Lindfield Corporate Centre Suite 18, 12 Tryon Road Lindfield NSW 2070 Tel : (02) 9413 8422 Fax: (02) 9413 84.32 www.flyashaustralia.com.au

Product being certified: Product sample date: Sample Identification: Source Power Station: Sample Condition: Certifying Laboratory: Mundra Monthly Grab Fly Ash 17-Dec-2020 Sample Code: 20120741 Imported Ash Tested as Received. Testing Commenced on 22-Dec-2020 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	89	0.2	0.8	n/a	0.002	75.9
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

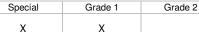
Test	Relative Density	Relative Water Requirement	Strength Index 7 Day Acc.	Reference Cement Details		
		%	%	Identification:: 21010011		
Result	2.66	87	136	Source: GP		
Test Method	AS3583.5	AS3583.6	AS3583.6	Product Type: Type GP		
AS 3582.1	-	-	Exceeds 105%	Sample Date: 04-Jan-21		

Additional Testing - Oxides

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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	Na₂O by XRF
	%	%	%	%	%	%	%
Result	12.3	44.1	19.6	12.2	0.8	6.2	1.72
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	P₂O₅ by XRF	Mn ₂ O ₃ by XRF	Total Alkali (NaEQ)
	%	%	%	%	%	%
Result	1.60	<0.1	0.8	0.4	0.1	2.77
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



Approved Signatory Monocold V Connell Signatory - Cement Australia Chemical Testing Construction Materials Testing

Notes:

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

