

STANDARD FLY ASH CERTIFICATE



FINAL
Prior Reports: None

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Certificate Number: CERT230228
Issued: 24 January 2023

Product being certified: Mt Piper Monthly Grab Fly Ash
Product sample date: 01-Jan-2023
Sample Identification: Sample Code: 23010080
Source Power Station: Mount Piper Power Station
Sample Condition: Tested as Received. Testing Commenced on 09-Jan-2023
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	87	0.8	0.1	n/a	< 0.002	95.2
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
Result	2.14	95	96	Identification:: 23010185 Source: Goliath GP
Test Method	AS3583.5	AS3583.6	AS3583.6	Product Type: Type GP
AS 3582.1	-	-	75% Minimum	Sample Date: 11-Jan-23

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	0.2	69.1	23.3	2.8	0.1	0.2	0.28
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	2.17	<0.1	0.8	0.2	< 0.1	1.71
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	

Approved Signatory



A Prem
Signatory - Cement Australia
Chemical Testing
Construction Materials Testing

Accredited for compliance with ISO/IEC 17025 - Testing
NATA is a signatory to the ILAC Mutual Recognition
Arrangement for the mutual recognition of the
equivalence of testing, medical testing, calibration,
inspection, proficiency testing scheme providers and
reference materials producers reports and certificates.



Laboratory accreditation number: 188
Laboratory accreditation number: 187

WORLD RECOGNISED
ACCREDITATION

Notes:

