

STANDARD FLY ASH CERTIFICATE



**MILLMERRAN
FLYASH**
SUSTAINABLE STRENGTH

FINAL
Prior Reports: None

Certificate Number: CERT212108
Issued: 03 August 2021

Independent Flyash Brokers Pty Ltd
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Product being certified: Independent Flyash Broker Monthly Grab Fly Ash
Product sample date: 14-Jul-2021
Sample Identification: Sample Code: 21070855
Source Power Station: Millmerran Power Station
Sample Condition: Tested as Received. Testing Commenced on 21-Jul-2021
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	0.2	0.1	Not Tested	0.001	95.0
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	1.94	94	92	Identification:: 21070900 Source: Goliath GP
Test Method	AS3583.5	AS3583.6	AS3583.6	Product Type: Type GP
AS 3582.1	-	-	75% Minimum	Sample Date: 22-Jul-21

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	1.2	58.6	33.6	2.8	0.1	1.0	0.38
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	0.71	<0.1	1.7	0.2	< 0.1	0.85
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. The results of the tests,
calibrations and/or measurements included in
this document are traceable to
Australian/national standards.



ACCREDITED FOR
**TECHNICAL
COMPETENCE**

Cement Australia - Darra Laboratory
NATA Accredited Laboratory Numbers
187 188

Notes:

