

STANDARD FLY ASH CERTIFICATE



FINAL
Prior Reports: None

Independent Flyash Brokers Pty Ltd

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Certificate Number: CERT250949
Issued: 03 March 2025

Product being certified: Independent Flyash Broker Monthly Grab Fly Ash
Product sample date: 20-Jan-2025
Sample Identification: Sample Code: 25011089
Source Power Station: Millmerran Power Station
Sample Condition: Tested as Received. Testing Commenced on 10-Feb-2025
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 | 83 | 0.5 | 0.1 | Not Tested | < 0.002 | 93.3 |
| Test Method | AS 3583.2 | AS 3583.1 | AS 3583.3 | AS 2350.2 | AS 3583.12 | AS 3583.13 | AS 2350.2 |
| AS/NZS 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 | 1.95 | 97 | 92 | Identification:: 25020650 Source: Gladstone GP |
| Test Method | AS 3583.5 | AS 3583.6 | AS 3583.6 | Product Type: Type GP |
| AS/NZS 3582.1 | - | - | 75% Minimum | Sample Date: 13-Feb-25 |

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 | 2.2 | 59.1 | 31.3 | 2.9 | 0.1 | 1.0 | 0.44 |
| Test Method | AS 2350.2 | AS 2350.2 | AS 2350.2 | AS 2350.2 | AS 2350.2 | AS 2350.2 | AS 2350.2 |

| 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 | 0.63 | <0.1 | 1.8 | <0.1 | < 0.1 | 0.85 |
| Test Method | AS 2350.2 | AS 2350.2 | AS 2350.2 | AS 2350.2 | AS 2350.2 | AS 2350.2 |

This sample conforms to the material requirements as prescribed in Table 1 of AS 3582.1


| Special | Grade 1 | Grade 2 |
|---------|---------|---------|
| | X | |

Approved Signatory



J Ventura
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: 187

WORLD RECOGNISED
ACCREDITATION

Notes: