

## CERTIFICATE OF ANALYSIS



**CERTIFICATE No.** 1042-19

**TEST CERTIFICATE FOR:** Type Grade 1 Fly Ash

**PRODUCED AT:** Sunstate Cement Ltd, Port of Brisbane

**SAMPLE IDENTIFICATION:** Monthly Composite for the month of July '19

**MATERIAL SOURCE:** Tarong Power station

**POINT OF SAMPLING:** Final product air slide, Sunstate Cement Ltd, Port of Brisbane

**SAMPLE TESTED AT:** Sunstate Cement Ltd, Port of Brisbane

**SAMPLE IDENTIFICATION:** U6M-000149

NATA accredited laboratory  
 Laboratory Number: 2191  
 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. This document shall not  
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SPECIFIED PROPERTY	TEST METHOD	AS3582.1 REQUIREMENTS		RESULT
Fineness	AS 3583.1	Minimum	75 %	79 %
Loss on ignition	AS 3583.3	Maximum	4 %	1.4 %
Moisture content	AS 3583.2	Maximum	0.5 %	0.1 %
SO <sub>3</sub>	Inhouse	Maximum	3 %	0.5 %
Total Alkali	AS 2350.2			0.4 %
Avalible Alkali	AS 3583.12			0.1 %
Chloride	AS 3583.13	Maximum	0.1 %	0.001 %
SiO <sub>2</sub> + Al <sub>2</sub> O <sub>3</sub> + Fe <sub>2</sub> O <sub>3</sub>	AS 2350.2	Minimum	70 %	96 %
Relative Density	AS 3583.5			2.2 g/cm <sup>3</sup>
Relative Water	AS 3583.6			101.3 %
Relative Strength	AS 3583.6	Minimum	75 %	101.8 %

**SAMPLING PROCEDURE:** Fly ash samples obtained according to the requirements of AS2350.1

**REMARKS:**

1. The results of the above tests relate only to the sample as described above.
2. Available alkali determined by: Cement Australia Technical Services  
 Accreditation No 187 & 188.



**G Santaguiliana**  
**Approved Signatory**  
**5-Nov-2019**

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