

# Certificate Of Analysis

Certificate Number: **0547-22** Issue Number: **1** Issue Date: **6/03/2023 1:08:16 PM**  
Test Certificate for: **Fine Grade Ash - Grade 1**  
Produced at: **Sunstate Cement Ltd., Port of Brisbane, Australia**  
Monthly Composite for: **November, 2022**  
Material Source: **TARONG NORTH**  
Point of Sampling: **Final product air slide, Sunstate Cement Ltd., Port of Brisbane, Australia**  
Sample Tested at: **Sunstate Cement Ltd., Port of Brisbane, Australia**  
Sample Identification: **U6M-000190**

SPECIFIC PROPERTY	TEST METHOD	AS3582.1 REQUIREMENTS		RESULT
Fineness	AS3583.1	Minimum	75 %	82.0 %
Loss on ignition	AS3583.3	Maximum	4 %	1.2 %
Moisture content	AS3583.2	Maximum	0.5 %	0.1 %
SO <sub>3</sub>	InHouse	Maximum	3 %	0.4 %
Total Alkali	AS2350.2			0.5 %
Avalible Alkali	AS3583.12			%
Chloride	AS3583.13	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>	AS3583.13	Minimum	70 %	89.6 %
Relative Density	AS3583.5			2.3 g/cm <sup>3</sup>
Relative Water	AS3583.6			97.9 %
Relative Strength	AS3583.6	Minimum	75 %	106.0 %

#### Sampling Procedure:

Samples obtained were in accordance with AS2350.1

#### Remarks:

- 1 These results only relate to the specimens identified on this report
- 2 Available alkali determined by: Cement Australia Technical Services Accreditation No 187 & 188



NATA accredited  
Laboratory Number: 2191

Accredited for compliance with  
ISO/IEC 17025 Testing



George Santagiuliana  
Approved Signature

06/03/2023

***This certificate replaces previous certificate number 0547-22, issue 0 dated (REASON: Test Data Updated)***