

# Certificate Of Analysis

Certificate Number: **0439-22** Issue Number: **1** Issue Date: **19/10/2022 1:36:25 PM**  
 Test Certificate for: **Fine Grade Ash - Grade 1**  
 Produced at: **Sunstate Cement Ltd., Port of Brisbane, Australia**  
 Monthly Composite for: **October, 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-000188**

SPECIFIC PROPERTY	TEST METHOD	AS3582.1 REQUIREMENTS		RESULT
Fineness	AS3583.1	Minimum	75 %	84.1 %
Loss on ignition	AS3583.3	Maximum	4 %	1.0 %
Moisture content	AS3583.2	Maximum	0.5 %	0.1 %
SO <sub>3</sub>	InHouse	Maximum	3 %	0.8 %
Total Alkali	AS2350.2			%
Avalible Alkali	AS3583.12			%
Chloride	AS3583.13	Maximum	0.1 %	0.003 %
SiO <sub>2</sub> + Al <sub>2</sub> O <sub>3</sub> + Fe <sub>2</sub> O <sub>3</sub>	AS3583.13	Minimum	70 %	%
Relative Density	AS3583.5			2.3 g/cm <sup>3</sup>
Relative Water	AS3583.6			98.0 %
Relative Strength	AS3583.6	Minimum	75 %	%

**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  
 19/10/2022

***This certificate replaces previous certificate number 0439-22, issue 0 dated (REASON: Test Data Updated)***