

# Certificate Of Analysis

Certificate Number: **0440-23** Issue Number: **1** Issue Date: **17/11/2023 1:40:32 PM**  
 Test Certificate for: **Milled Slag**  
 Produced at: **Sunstate Cement Ltd., Port of Brisbane, Australia**  
 Monthly Composite for: **August, 2023**  
 Material Source: **Nippon Steel**  
 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: **T6M-000172**


SPECIFIC PROPERTY	TEST METHOD	AS3582.2 REQUIREMENTS		RESULT
Fineness	AS3583.1			95.6 %
Loss on ignition	AS3583.3			-0.3 %
Insoluble residue	AS3583.14			%
SO <sub>3</sub>	InHouse			0.3 %
Magnesia (MgO)	AS2350.2	Maximum	15 %	6.8 %
Alumina (Al <sub>2</sub> O <sub>3</sub> )	AS2350.2	Maximum	18 %	12.3 %
Total Iron (Fe <sub>2</sub> O <sub>3</sub> )	AS2350.2			0.6 %
Manganese (MnO)	AS2350.2			0.3 %
Total Alkali	AS2350.2			0.5 %
Avalible Alkali	AS3583.12			0.2 %
Chloride	AS3583.13	Maximum	0.1 %	0.001 %
Relative Density	AS3583.5			2.9 g/cm <sup>3</sup>
Relative Water	AS3583.6			102.0 %
Relative Strength	AS3583.6			85.2 %

**Sampling Procedure:**

Samples obtained were in accordance with AS2350.1


**Remarks:**

- 1 These results only relate to the specimens identified on this report
- 2 Total Alkali determined at Australian Laboratory Services by ICP - AES using ME -ICP 91, Corporate Accreditation No 825, Corporate Site 818
- 3 XRF Analytical results determined at Australian Laboratory Services by XRF using ME -XRF 26, Corporate Accreditation No 825, Corporate Site 818
- 5 Available alkali determined by: Cement Australia Accreditation No 187 & 188



NATA accredited  
 Laboratory Number: 2191

Accredited for compliance with  
 ISO/IEC 17025 Testing



George Santagiuliana  
 Approved Signature

17/11/2023