

Certificate Of Analysis

Certificate Number: **0326-22** Issue Number: **2** Issue Date: **19/10/2022 2:01:29 PM**
 Test Certificate for: **Milled Slag**
 Produced at: **Sunstate Cement Ltd., Port of Brisbane, Australia**
 Monthly Composite for: **July, 2022**
 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-000159**

| SPECIFIC PROPERTY | TEST METHOD | AS3582.2 REQUIREMENTS | | RESULT |
|--|-------------|-----------------------|-------|-----------------------|
| Fineness | AS3583.1 | | | 86.6 % |
| Loss on ignition | AS3583.3 | | | 1.0 % |
| Insoluble residue | AS3583.14 | | | 0.4 % |
| SO ₃ | InHouse | | | % |
| Magnesia (MgO) | AS2350.2 | Maximum | 15 % | 5.6 % |
| Alumina (Al ₂ O ₃) | AS2350.2 | Maximum | 18 % | 12.6 % |
| Total Iron (Fe ₂ O ₃) | 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 % | 0.006 % |
| Relative Density | AS3583.5 | | | 2.8 g/cm ³ |
| Relative Water | AS3583.6 | | | 102.4 % |
| Relative Strength | AS3583.6 | | | 81.5 % |

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
 19/10/2022