Sunstate Cement Ltd.
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# Certificate Of Analysis

Certificate Number: **0638-20** Issue Number: **1** Issue Date: **19/10/2020 10:56:59 AM**

Test Certificate for: **Milled Slag**

Produced at: **Sunstate Cement Ltd., Port of Brisbane, Australia**

Monthly Composite for: **June, 2020**

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-000133**

| SPECIFIC PROPERTY | TEST METHOD | AS3582.1 REQUIREMENTS | | RESULT |
|---|---|---|---|---|
| **Fineness** | AS3583.1 | | | **94.3** % |
| **Loss on ignition** | AS3583.3 | | | **1.6** % |
| **Insoluble residue** | AS3583.14 | | | **0.7** % |
| **$SO_3$** | InHouse | | | **2.2** % |
| **Magnesia (MgO)** | AS2350.2 | Maximum | 15 % | **5.7** % |
| **Alumina ($Ai_2O_3$)** | AS2350.2 | Maximum | 18 % | **12.7** % |
| **Total Iron ($Fe_2O_3$)** | AS2350.2 | | | **1.0** % |
| **Manganese (MnO)** | AS2350.2 | | | **0.2** % |
| **Total Alkali** | AS2350.2 | | | **0.4** % |
| **Avalible Alkali** | AS3583.12 | | | **0.2** % |
| **Chloride** | AS3583.13 | Maximum | 0.1 % | **0.003** % |
| **Relative Density** | AS3583.5 | | | **2.8** g/cm³ |
| **Relitave Water** | AS3583.6 | | | **100.0** % |
| **Relitave Strength** | AS3583.6 | | | **84.5** % |

**Sampling Procedure:**
Samples obtained were in accordance with AS2350.1

**Remarks:**

1 These results only relate to the specimens identified on this report

5 Available alkali determined by: Cement Australia Accreditation No 187 & 188

NATA

NATA accredited
Laboratory Number: 2191

Accredited for compliance with ISO/IEC 17025 Testing

George Santagiuliana
Approved Signature
19/10/2020

***This certificate replaces previous certificate number 0638-20, issue 0 dated (REASON: Test Data Updated)***