

CERTIFICATE OF ANALYSIS

CERTIFICATE No. 0829-18

TEST CERTIFICATE FOR: Type Milled Slag

PRODUCED AT: Sunstate Cement Ltd, Port of Brisbane

SAMPLE IDENTIFICATION: Monthly Composite for the month of February'18

MATERIAL SOURCE: Nippon Steel Corporation

POINT OF SAMPLING: Final product air slide, Sunstate Cement Ltd, Port of Brisbane

SAMPLE TESTED AT: Sunstate Cement Ltd, Port of Brisbane

SAMPLE IDENTIFICATION: T6M-000104



NATA accredited laboratory
 Laboratory Number: 2191
 Accredited for compliance with
 ISO/IEC 17025
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 calibrations and/or measurements
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 traceable to Australian/national
 standards. This document shall not
 be reproduced except in full.

SPECIFIED PROPERTY	TEST METHOD	AS3582.1 REQUIREMENTS		RESULT
Fineness	AS 3583.1			94 %
Insoluble residue	AS 3583.14			0.1 %
Loss on ignition	AS 3583.3			1.1 %
SO ₃	Inhouse			2.6 %
Chemical Properties				
Sulfide sulfur (S)	AS 3583.7	Maximum	1.5 %	0.8 %
Magnesia (MgO)	AS 2350.2	Maximum	15 %	6.2 %
Alumina (Al ₂ O ₃)	AS 2350.2	Maximum	18 %	13.3 %
Total Iron (FeO)	AS 2350.2			0.6 %
Manganese (MnO)	AS 2350.2			0.2 %
Chloride	AS3583.13	Maximum	0.1 %	0.005 %
Total Alkali	AS2350.2			0.5 %
Avalible Alkali	AS3583.12			0.1 %
Relative Density	AS3583.5			2.8 g/cm ³
Relative Water	AS3583.6			102 %
Relative Strength	AS3583.6			83.3 %

SAMPLING PROCEDURE: Slag samples obtained according to the requirements of AS2349

REMARKS:

- The results of the above tests relate only to the sample as described above.
- Total Alkali determined at Australian Laboratory Services by ICP -AES using ME -ICP 91,
 Corporate Accreditation No 825, Corporate Site 818.
- XRF Analytical results determined at Australian Laboratory Services by XRF using ME -XRF 26,
 Corporate Accreditation No 825, Corporate Site 818.
- Available alkali determined by: Boral Material Technical Services Accreditation No 547.


G Santaguiliana
 Approved Signatory
 25-May-2018