

CERTIFICATE OF ANALYSIS

CERTIFICATE No. 2225-18

TEST CERTIFICATE FOR: GP Portland Cement

PRODUCED AT: Sunstate Cement Ltd, Port of Brisbane

SAMPLE IDENTIFICATION: Spot Despatch Sample sample A6P-002169 sampled on 3/12/2018

SAMPLE TESTED AT: Sunstate Cement Ltd, Port of Brisbane

SPECIFIED PROPERTY	TEST METHOD	AS3972 REQUIREMENTS		RESULT
Compressive strength	AS2350.11, AS2350.12			
3 day				37.6 MPa
7 day		Minimum	35 MPa	49.0 MPa
28 day		Minimum	45 MPa	59.2 MPa
Setting time	AS2350.4			
Initial		Minimum	45 mins	105 mins
Final		Maximum	360 mins	180 mins
Soundness	AS2350.5	Maximum	5 mm	0 mm
Sulphuric anhydride (SO ₃)	In House	Maximum	3.5 %	2.8 %
Chloride	AS3583.13	Maximum	0.1 %	0.012 %

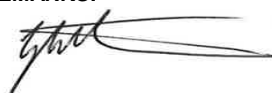
REPORTABLE PROPERTY	TEST METHOD			RESULT
Loss on ignition	AS2350.2			3.3 %
Fineness	AS2350.8			370 m ² /kg
Total Alkali (Na ₂ O _{eq})	AS2350.2			0.6 %

OTHER PROPERTIES	TEST METHOD			RESULT
Normal Consistency	In House			29.0 %

SAMPLING PROCEDURE:

- 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.

REMARKS:



G Santaguiliana
Approved Signatory
4-Jan-2019

Page 1 of 1

A.B.N. 58 010 421 879
 POSTAL ADDRESS: PO BOX 350, WYNNUM, QLD. 4178
 PHONE: (07) 3895 9800 FAX: (07) 3895 9801



NATA accredited laboratory
 Laboratory Number: 2191
 Accredited for compliance with
 ISO/IEC 17025
 The results of the tests,
 calibrations and/or measurements
 included in this document are
 traceable to Australian/national
 standards. This document shall not
 be reproduced except in full.