

# Certificate Of Analysis

Certificate Number: **0893-20** Issue Number: **1** Issue Date: **19/10/2020 10:21:50 AM**  
 Test Certificate for: **HE Portland Cement**  
 Sample Tested at: **Sunstate Cement Ltd., Port of Brisbane, Australia**  
 Sample Identification: **Spot Despatch Sample E6P-001033 dated 7/09/2020**  
 Sample Produced at: **Sunstate Cement Ltd., Port of Brisbane, Australia**


SPECIFIC PROPERTY	TEST METHOD	AS3972 REQUIREMENTS	RESULT
<b>Compressive strength</b>	AS2350.11, AS2350.12		
1 Day			<b>22.8 MPa</b>
3 Day		Minimum 25 MPa	<b>40.8 MPa</b>
7 Day		Minimum 40 MPa	<b>52.7 MPa</b>
28 Day			<b>62.9 MPa</b>
<b>Setting Time</b>	AS2350.4		
Initial		Minimum 45 mins	<b>105 mins</b>
Final		Maximum 360 mins	<b>180 mins</b>
<b>Soundness</b>	AS2350.5	Maximum 5 mm	<b>2 mm</b>
<b>Sulphuric anhydride (SO<sub>3</sub>)</b>	In House	Maximum 3.5 %	<b>2.7 %</b>
<b>Chloride</b>	AS3583.13	Maximum 0.1 %	<b>0.007 %</b>
REPORTABLE PROPERTY	TEST METHOD		RESULT
<b>Loss on ignition</b>	AS2350.2		<b>3.2 %</b>
<b>Fineness</b>	AS2350.8		<b>405 m<sup>2</sup>/kg</b>
OTHER PROPERTIES	TEST METHOD		RESULT
<b>Normal Consistency</b>	AS2350.3		<b>30.0 %</b>

**Sampling Procedure:**

Samples were prepared in accordance with AS2350.1


**Remarks:**

- 1 These results only relate to the specimens identified on this report
- 2 The sample as tested conforms to the requirements of AS3972 as Type HE cement



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 0893-20, issue 0 dated (REASON: Test Data Updated)***