

## **Cement Test Certificate**

ABN 22 009 593 515

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Type LH Low Heat Cement

**Product Certified:** 

	ribuuct certificu.	Type Life			
	Test Certificate Numb	<b>ber:</b> 170064	170064		
	Produced At:	Northern C	Cement, Darwin Plant, NT		
	Sample Code:	C0b315a			
	Sample Date:	23/03/201	7		
Nominal Blend			Requirements	Result	
Clinker				30%	
Ground Granulated Iron Blast-Furna	ice Slag			65%	
Mineral Addition			Max 7.5 %	Nil	
Calcium Sulphate				<5 %	
Minor Additional Constituents			Max 5 %	Nil	
Reportable Property		Test Method	Requirements of	Result	
			AS3972		
3 Day Strength		AS2350.11	N/R	14.3 MPa	
7 Day Strength		AS2350.11	Min 10.0 MPa	27.4 MPa	
28 Day Strength		AS2350.11	Min 30.0 MPa	47.3 MPa	
Initial Set Time		AS2350.4	Min 45 min	195 min	
Final Set Time		AS2350.4	Max 600 min	240 min	
Soundness		AS2350.5	Max 5 mm	1 mm	
Sulfuric Anhydride content (S	SO <sub>3</sub> )	AS3583.8	Max 3.5 %	2.8 %	
Chloride Ion		ASTM C114	Max 0.10 %	0.006 %	
Peak Temp Rise		AS2350.7	Max 23 °C	21.0 °C	
Other Properties					
SiO <sub>2</sub>		AS2350.2	N/R	27.7 %	
Al <sub>2</sub> O <sub>3</sub>		A\$2350.2	N/R	9.8 %	
Fe <sub>2</sub> O <sub>3</sub>		A\$2350.2	N/R	1.7 %	
CaO		AS2350.2	N/R	50.3 %	

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AS2350.2

AS2350.2

AS2350.2

AS2350.8

AS2350.3

## REMARKS

MgO

Na<sub>2</sub>O Equivalent

Loss on Ignition

**Fineness Index** 

Normal Consistency

These test results apply specifically to the sample as received at the Cockburn Cement Laboratory (Accredited Numbers 249 and 254), Lot 242 Russell Rd East Munster 6166.

This despatch grab sample complies to the requirements of AS3972:2010, Type LH Cement. N/R = No Requirement



Accredited for compliance with ISO/IEC 17025 - Testing. The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Rodd Clark

3.9 %

0.4 %

1.3 %

32.8 %

390 m²/kg

Approved Signatory R. Clark

Issue Date:

N/R

N/R

N/R

N/R

N/R

12/05/2017