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HIGH EARLY STRENGTH CEMENT

Typical Analysis

	Typical BGC Value	Typical BGC Range	AS 3972	Units
Mortar Compressive Strengths				
3 day	36	33 – 43	<i>Min. 25</i>	(MPa)
7 day	46	45 – 48	<i>Min. 40</i>	(MPa)
28 day	55	54 – 57	-	(MPa)
Vicat Setting Time				
Normal Consistency	29.0	28.6 – 29.3	-	(%)
Initial Set	75	75 – 90	<i>Min. 45</i>	(minutes)
Final Set	135	135 – 150	<i>Max. 360</i>	(minutes)
Residue				
+45µm	3.3	2.6 – 4.0	-	(%)
Fitness Index				
	434	412 – 460	-	(m ² /kg)
Soundness				
	1	0 – 2	<i>Max. 5</i>	(mm)
Chemical Analysis				
SO ₃	2.4	2.2 – 2.6	<i>Max. 3.5</i>	(%)
SiO ₂	20.1	19.9 – 20.6	-	(%)
Al ₂ O ₃	5.2	5.1 – 5.3	-	(%)
Fe ₂ O ₃	3.2	3.1 – 3.4	-	(%)
MgO	1.5	1.5 – 1.6	-	(%)
CaO	64.2	63.4 – 65.2	-	(%)
Loss on Ignition	1.7	1.3 – 2.2	-	(%)
Na ₂ O (equivalent)	0.6	0.4 – 0.6	-	(%)
Chloride ion	0.01	0.00 – 0.01	<i>Max 0.10</i>	(%)

Note: Typical range is at 95% confidence level, individual results may be outside of this range.

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TECHNICAL DATA SHEET

Issue Date: 29 May 2017 (For current data please check with undersigned)