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HIGH EARLY STRENGTH CEMENT

Typical Analysis

	Typical BGC Value	Typical BGC Range	AS 3972	Units
Mortar Compressive Strengths				
1 day	25	23 - 27		
3 day	41	39 - 43	<i>Min. 25</i>	(MPa)
7 day	54	52 - 56	<i>Min. 40</i>	(MPa)
28 day	65	62 - 67	-	(MPa)
Vicat Setting Time				
Normal Consistency	29.0	28.6 - 29.3	-	(%)
Initial Set	90	75 - 105	<i>Min. 45</i>	(minutes)
Final Set	150	135 - 165	<i>Max. 360</i>	(minutes)
Residue				
+45µm	3.5	3.0 - 4.0	-	(%)
Fineness Index				
	450	430 - 470	-	(m ² /kg)
Soundness				
	1	0 - 2	<i>Max. 5</i>	(mm)
Chemical Analysis				
SO ₃	3.0	2.8 - 3.2	<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.

Issue Date: 13 August 2019