



TYPE: **BULK HE**

HIGH EARLY STRENGTH CEMENT

Typical Analysis

	Typical BGC Range	AS 3972	Units
Mortar Compressive Strengths			
1 day	18 – 25	-	(MPa)
3 day	34 – 42	<i>Min. 25</i>	(MPa)
7 day	48 – 56	<i>Min. 40</i>	(MPa)
28 day	63 – 70	-	(MPa)
Vicat Setting Time			
Normal Consistency	28.6 – 29.3	-	(%)
Initial Set	75 – 120	<i>Min. 45</i>	(minutes)
Final Set	150 – 165	<i>Max. 360</i>	(minutes)
Residue			
+45µm	2.3 – 4.4	-	(%)
Fineness Index			
	408 – 463	-	(m ² /kg)
Soundness			
	0 – 1	<i>Max. 5</i>	(mm)
Chemical Analysis			
SO ₃	2.4 – 3.2	<i>Max. 3.5</i>	(%)
SiO ₂	20.0 – 20.5	-	(%)
Al ₂ O ₃	5.1 – 5.4	-	(%)
Fe ₂ O ₃	3.2 – 3.4	-	(%)
MgO	1.3 – 1.7	-	(%)
CaO	62.9 – 63.9	-	(%)
Loss on Ignition	2.1 – 3.1	-	(%)
Na ₂ O (equivalent)	0.3 – 0.5	-	(%)
Chloride ion	0.00 – 0.02	<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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