



TYPE **GP**

GENERAL PURPOSE CEMENT

Typical Analysis

	Typical BGC Value	Typical BGC Range	AS 3972	Units
Mortar Compressive Strengths				
3 day	40	38 – 42	-	(MPa)
7 day	52	50 – 54	<i>Min. 35</i>	(MPa)
28 day	65	63 – 67	<i>Min. 45</i>	(MPa)
Vicat Setting Time				
Normal Consistency	28.0	27.5 – 28.5	-	(%)
Initial Set	105	90 – 120	<i>Min. 45</i>	(minutes)
Final Set	165	150 – 180	<i>Max. 360</i>	(minutes)
Residue				
+45µm	4.5	4.2 – 4.8	-	(%)
Fineness Index				
	410	390 – 420	-	(m ² /kg)
Soundness				
	1	0 – 1	<i>Max. 5</i>	(mm)
Chemical Analysis				
SO ₃	2.8	2.4 – 3.2	<i>Max. 3.5</i>	(%)
SiO ₂	19.4	19.0 – 19.8	-	(%)
Al ₂ O ₃	5.1	4.7 – 5.2	-	(%)
Fe ₂ O ₃	3.1	3.0 – 3.3	-	(%)
MgO	1.4	1.2 – 1.6	-	(%)
CaO	63.4	62.6 – 64.2	-	(%)
Loss on Ignition	3.3	2.5 – 3.9	-	(%)
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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