

APPENDIX 6.22

GENERAL SPECIFICATIONSWAN GENERAL PURPOSE BLENDED CEMENT - TYPE GB

Values stated within this specification are based upon test results from grab samples. Individual results may from time to time lie outside these ranges and such occurrence should not necessarily be regarded as failure of the sampled batch to conform to this general specification.

Parameter	Method	Units	Typical	Range	AS3972-1997 Limits
Chemical Analysis					
SiO ₂	XRF	%	24.5	23.0 – 26.0	
Al ₂ O ₃	XRF	%	7.5	6.5 – 8.5	
Fe ₂ O ₃	XRF	%	2.4	2.0 – 2.8	
CaO	XRF	%	56.5	54 – 59	
MgO	XRF	%	2.7	2.0 – 3.5	
SO ₃	XRF	%	2.6	2.2 – 3.0	3.5% max
LOI	AS2350.2	%	1.5	1.0 – 2.3	
Chloride	ASTM C114	%	0.02	0.01 – 0.04	
Na ₂ O Equivalent	ASTM C114	%	0.45	0.30 - 0.60	
Fineness Index					
	AS2350.8	m ² /kg	460	420 – 500	
Normal Consistency					
	AS2350.3	%	31.5	30.5 – 32.5	
Setting Times					
- Initial	AS2350.4	mins	150	120 – 195	45 mins min
- Final		mins	225	180 – 255	10 hr max
Soundness					
	AS2350.5	mm	1		5 mm max
*Compressive Strengths					
	AS2350.11				
	3 day	MPa	32	28 – 36	
	7 day	MPa	44	40 – 48	15 MPa min
	28 day	MPa	65	61 – 69	30 MPa min

*Normen standard sand used