

APPENDIX 6.2

GENERAL SPECIFICATION**COCKBURN HIGH EARLY STRENGTH CEMENT - TYPE HE**

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 Limits
Chemical Analysis						
SiO ₂	XRF	%	20.8	20.2	21.5	3.5% max
Al ₂ O ₃	XRF	%	5.0	4.6	5.3	
Fe ₂ O ₃	XRF	%	3.0	2.7	3.2	
CaO	XRF	%	64.4	63.3	65.5	
MgO	XRF	%	1.9	1.4	2.4	
SO ₃	XRF	%	3.0	0.5	1.4	
LOI	AS2350.2	%	1.0	2.8	3.2	
Chloride	ASTM C114	%	0.012	0.003	0.021	
Na ₂ O equiv	ASTM C114	%	0.29	0.24	0.35	
Fineness Index						
	AS2350.8	M ₂ /kg	466	434	498	
Normal Consistency						
	AS2350.3	%	30.3	28.4	32.2	
Setting Times						
Initial	AS2350.4	mins	90	50	130	45 mins min
Final	AS2350.4	mins	145	95	200	6 hr max
Soundness						
	AS2350.5	mm	0.5	-0.8	1.9	5mm max
*Compressive Strengths						
3 day	AS2350.11	MPa	43.2	38.5	47.9	25 MPa
7 day	AS2350.11	MPa	51.3	46.0	56.5	40 MPa
28 day	AS2350.11	MPa	63.0	58.5	67.5	

*Normen standard sand used