

GENERAL SPECIFICATION

COCKBURN GENERAL PURPOSE PORTLAND CEMENT – TYPE GP

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 occurrences 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	%	20.2	19.8 – 20.6	3.5% max
Al ₂ O ₃	XRF	%	4.9	4.6 – 5.2	
Fe ₂ O ₃	XRF	%	2.8	2.6 – 3.0	
CaO	XRF	%	63.9	63.1 – 64.7	
MgO	XRF	%	2.0	1.5 – 2.5	
SO ₃	XRF	%	2.4	2.1 – 2.7	
LOI	AS2350.2	%	2.5	2.1 – 2.9	
Chloride	ASTM C114	%	0.015	0.005 – 0.025	
Na ₂ O equiv	XRF	%	0.5	0.4 – 0.6	
Fineness Index	AS2350.8	m ² /kg	400	375 - 425	
Normal Consistency	AS2350.3	%	29.5	28.5 – 30.5	
Setting Times					
Initial	AS2350.4	mins	135	105 – 150	45 mins min
Final	AS2350.4	mins	195	165 - 225	6 hrs max
Soundness	AS2350.5	mm	1.0	0 – 2.0	5mm max
*Compressive Strengths					
3 Day	AS2350.11	MPa	38	35 – 41	35 MPa 45 MPa
7 Day	AS2350.11	MPa	48	44 – 52	
28 Day	AS2350.11	MPa	60	56 - 64	