



ATZ PRODUCTION & INTERNATIONAL EXPORT

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CERTIFICATE OF ANALYSIS Portland Composite Cement CEM II/32.5N Conforming to EN 197-1:2011

Physical properties	Unit	Specification	Typical Test Results	Test Method
Blaine	cm ² /g	-	4000	EN 196-6
Soundness (Le Chatelier)	g/cm ³	Max 10.0	1.00	EN 196-3
Compressive Strength				
2 days	Mpa		14.0	EN 196-1
3 days		-	20.0	
7 days		Min 16.0	32.0	
28 days		Min 32.5	38.0	
Time of setting (Vicat)				
Intial set	Minutes	Min 75	190	EN 196-3
Final set		-	240	
Retained content on				
+ Sieve 45 µm	%	-	7.0	EN 196-6
+ Sieve 90 µm	%	-	0.6	
Chemical properties				
MgO	%	-	2.50	EN196-2
SO ₃	%	Max 3.5	1.60	
Loss on ignition (LOI)	%	-	10.50	
Insoluble Residue	%	-	16.02	
SiO ₂	%	-	25.03	
Al ₂ O ₃	%	-	5.35	
Fe ₂ O ₃	%	-	3.05	
CaO	%	-	49.23	
Chloride content	%	Max 0.1	0.01	