



## ATZ PRODUCTION & INTERNATIONAL EXPORT

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### CERTIFICATE OF ANALYSIS Portland Composite Cement Conforming to EN 197-1:2011 Cem II Class 42.5N

Physical properties	Unit	Specification	Typical Test Results	Test Method
Blaine	cm <sup>2</sup> /g	Min 3200	4100	EN 196-6
Mass Density	g/cm <sup>3</sup>	-	3.00	
<b>Compressive Strength</b>				
2 days	Mpa	Min 10.0	18.0	EN 196-1
3 days		-	26.0	
7 days		-	34.0	
28 days		Min 42.5	46.0	
<b>Time of setting (Vicat)</b>				
Initial set	Minutes	Min 60	180	EN 196-3
Final set		-	230	
<b>Retained content on</b>				
+ Sieve 45 µm	%	Max 12	4.5	EN 196-6
+ Sieve 80 µm	%	Max 6.0	1.2	
+ Sieve 90 µm	%	-	0.5	
<b>Chemical properties</b>				
MgO	%	Max 5.0	1.80	EN 196-2
SO <sub>3</sub>	%	Max 4.0	2.10	
Loss on ignition (LOI)	%	Max 10.0	7.52	
Insoluble Residue	%	-	12.50	
SiO <sub>2</sub>	%	-	26.51	
Al <sub>2</sub> O <sub>3</sub>	%	-	4.95	
Fe <sub>2</sub> O <sub>3</sub>	%	-	3.06	
CaO	%	-	60.23	
Equivalent alkalies (Na <sub>2</sub> O+ 0.658K <sub>2</sub> O)	%	-	0.78	
Chloride content	%	Max 0.1	0.008	
Free CaO	mg/kg	-	0.75	