



ATZ PRODUCTION & INTERNATIONAL EXPORT

Office address: Lane 90 Buoi Street, Ngockhanh Ward, Badinh district, Hanoi, Vietnam

Tel: +84 246 254 1072

Fax: +84 243 577 2850

Email: Sales@atzexporter.com

CERTIFICATE OF ANALYSIS Portland Composite Cement CEM II 42.5R Conforming to EN 197-1:2011

Physical properties	Unit	Specification	Typical Test Results	Test Method
Blaine	cm ² /g	-	3800	EN 196-6
Soundness	mm	Max 10	1.0	EN 196-3
Flexural Strength				
3 days	Mpa	Min 4.0	5.2	EN 196-1
28 days		Min 6.5	9.5	
Compressive Strength				
3 days	Mpa	Min 22.0	34.2	EN 196-1
28 days		Min 42.5	54.5	
Time of setting (Coagulation)				
Intial set	Minutes	Min 45	180	EN 196-3
Final set		Max 600	230	
Retained content on				
+ Sieve 45 µm	%	-	3.5	EN 196-6
+ Sieve 90 µm	%	-	0.8	
Chemical properties				
SO ₃	%	Max 3.5	2.15	EN 196-2
Loss on ignition (LOI)	%	-	7.45	
Insoluble Residue	%	-	0.5	
Alkali content	%	Max 0.6	0.5	
Chloride content	%	Max 0.06	0.01	
Water soluble hexavalent chromium (Cr6+)	mg/kg	Max 10.0	5.0	EN 196-10