



CEMENTOS ALFA, S.A.

Plant: MATAPORQUERA

ER Certificate: ER-0572/1998



QUALITY ANALYSIS CERTIFICATE - CEMENT

TYPICAL RESULTS

Cement Type: CEM I 42,5 R (EN 197-1)

PERIOD: OCTOBER 2014

CE: 0099/CPR/A33/0154

N: 015/001358

The Quality Management System adopted in our company for the production and commercialization of cements and clinker, complies with UNE-EN-ISO 9001:2008, and it is certified by AENOR. It is also certified under IQNet network.

TESTS	Results	Specification EN 197-1
Chemical Characteristics		
Loss on Ignition %	2,78	≤ 5,0
SiO ₂ %	19,39	
Al ₂ O ₃ %	5,54	
Fe ₂ O ₃ %	2,17	
CaO %	63,17	
MgO %	1,61	
Na ₂ O %	0,12	
K ₂ O %	1,15	
Insoluble Residue %	0,67	≤ 5,0
Sulphates (SO ₃) %	3,39	≤ 4,0
Chlorides %	0,01	≤ 0,10
Physical and Mechanical Characteristics		
Normal Consistency Water %	29,5	
Initial Setting Time min	180	≥ 60
Final Setting Time min	230	
Soundness (Le Chatelier) mm	0,0	≤ 10
Specific Surface (Blaine) cm ² /g	3780	
Compressive Strength at 2 days MPa	34,4	≥ 20,0
Compressive Strength at 28 days MPa	58,2	42,5-62,5
Other Characteristics		
Na ₂ O equiv. %	0,88	
Bogue Composition (mineral phases) *		
C ₃ S %	55,8	
C ₂ S %	18,3	
C ₃ A %	12,5	
C ₄ AF %	7,2	

* Corresponding to clinker composition

R-25-4-52/5-Z

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