



CEMENTOS ALFA, S.A,

Plant: MATAPORQUERA

ER Certificate: ER-0572/1998



QUALITY ANALYSIS CERTIFICATE - CEMENT

TYPICAL RESULTS

Cement Type: CEM I 52,5 R ma (EN 197-1)

PERIOD: May 2014

CE: 0099/CPR/A33/0831

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 %	1,77	≤ 5,0
SiO ₂ %	20,87	
Al ₂ O ₃ %	3,95	
Fe ₂ O ₃ %	3,10	
CaO %	64,22	
MgO %	1,36	
Na ₂ O %	0,13	
K ₂ O %	0,71	
Insoluble Residue %	0,57	≤ 5,0
Sulphates (SO ₃) %	3,32	≤ 4,0
Chlorides %	0,00	≤ 0,10
Physical and Mechanical Characteristics		
Normal Consistency Water %	30,5	
Initial Setting Time min	155	≥ 45
Final Setting Time min	210	
Soundness (Le Chatelier) mm	0,5	≤ 10
Specific Surface (Blaine) cm ² /g	4960	
Compressive Strength at 2 days MPa	41,5	≥ 30,0
Compressive Strength at 28 days MPa	67,4	≥ 52,5
Other Characteristics		
Na ₂ O equiv. %	0,60	≤ 0,75
Bogue Composition (mineral phases)		
C ₃ S %	62,3	
C ₂ S %	17,4	
C ₃ A %	4,7	
C ₄ AF %	10,7	

R-25-4-52/5-Z

Quality Manager

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