



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: JUNE 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 %	1,88	≤ 5,0
SiO ₂ %	20,07	
Al ₂ O ₃ %	4,17	
Fe ₂ O ₃ %	3,30	
CaO %	64,03	
MgO %	1,42	
Na ₂ O %	0,16	
K ₂ O %	0,75	
Insoluble Residue %	0,55	≤ 5,0
Sulphates (SO ₃) %	3,38	≤ 4,0
Chlorides %	0,00	≤ 0,10
Physical and Mechanical Characteristics		
Normal Consistency Water %	31,0	
Initial Setting Time min	155	≥ 45
Final Setting Time min	205	
Soundness (Le Chatelier) mm	1,0	≤ 10
Specific Surface (Blaine) cm ² /g	4990	
Compressive Strength at 2 days MPa	40,0	≥ 30,0
Compressive Strength at 28 days MPa	68,8	≥ 52,5
Other Characteristics		
Na ₂ O equiv. %	0,65	≤ 0,75
Bogue Composition (mineral phases)		
C ₃ S %	63,7	
C ₂ S %	15,3	
C ₃ A %	5,9	
C ₄ AF %	10,0	

R-25-4-52/5-Z

Quality Manager

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