



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: SEPTEMBER 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 %	1,97	≤ 5,0
SiO ₂ %	20,14	
Al ₂ O ₃ %	4,23	
Fe ₂ O ₃ %	3,41	
CaO %	63,36	
MgO %	1,49	
Na ₂ O %	0,12	
K ₂ O %	0,83	
Insoluble Residue %	0,51	≤ 5,0
Sulphates (SO ₃) %	3,38	≤ 4,0
Chlorides %	0,01	≤ 0,10
Physical and Mechanical Characteristics		
Normal Consistency Water %	30,0	
Initial Setting Time min	160	≥ 45
Final Setting Time min	200	
Soundness (Le Chatelier) mm	0,0	≤ 10
Specific Surface (Blaine) cm ² /g	5020	
Compressive Strength at 2 days MPa	40,2	≥ 30,0
Compressive Strength at 28 days MPa	68,2	≥ 52,5
Other Characteristics		
Na ₂ O equiv. %	0,67	≤ 0,75
Bogue Composition (mineral phases)		
C ₃ S %	65,0	
C ₂ S %	13,0	
C ₃ A %	4,7	
C ₄ AF %	11,2	

R-25-4-52/5-Z

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