



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: MARCH 2015

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 %	2,66	≤ 5,0
SiO ₂ %	19,48	
Al ₂ O ₃ %	5,57	
Fe ₂ O ₃ %	2,33	
CaO %	63,01	
MgO %	1,89	
Na ₂ O %	0,17	
K ₂ O %	1,08	
Insoluble Residue %	0,51	≤ 5,0
Sulphates (SO ₃) %	3,29	≤ 4,0
Chlorides %	0,01	≤ 0,10
Physical and Mechanical Characteristics		
Normal Consistency Water %	28,6	
Initial Setting Time min	160	≥ 60
Final Setting Time min	210	
Soundness (Le Chatelier) mm	0,5	≤ 10
Specific Surface (Blaine) cm ² /g	3690	
Compressive Strength at 2 days MPa	32,1	≥ 20,0
Compressive Strength at 28 days MPa	56,8	42,5-62,5
Other Characteristics		
Na ₂ O equiv. %	0,88	
Bogue Composition (mineral phases) *		
C ₃ S %	52,8	
C ₂ S %	20,8	
C ₃ A %	12,4	
C ₄ AF %	7,4	

* Corresponding to clinker composition

R-25-4-52/5-Z

Quality Manager

Barrio la Estación, s/n.
39410 Mataporquera (Cantabria)
Tel. 942 770 058
Fax 942 770 243
info@alfainforma.com



GRUPO
CEMENTOS
PORTLAND
VALDERRIVAS