



CEMENTOS ALFA, S.A.

PLANT: MATAPORQUERA

ER Certificate: ER-0572/1998



TECHNICAL CHARACTERISTICS CERTIFICATE

Cement

CEM I 52.5 R MA

Period

February, 2016

CE: 0099/CPR/A33/0831

TESTS	Results Average Value	Standard Spec. EN/UNE
Chemical Characteristics		
Loss on Ignition %	2,2	< 5,0
Insoluble Residue %	0,4	< 5,0
Sulphates (SO ₃) %	3,5	< 4,0
Chlorides %	0,01	< 0,10
Physical and Mechanical Characteristics		
Normal Consistency Water %	30,8	
Initial Setting Time min	171	> 45
Final Setting Time min	223	< 720
Soundness Le Chatelier mm	0,4	< 10
Specific Surface (Blaine) cm ² /g	5019	
Compressive Strength at 2 days MPa		
• Monthly average	41,5	> 30,0
• Cumulative average (03/2015 - 02/2016)	40,8	> 30,0
• Cumulative Std. Dev. (03/2015 - 02/2016)	2,3	
Compressive Strength at 28 days MPa		
• Monthly average	66,2	> 52,5
• Cumulative average (03/2015 - 02/2016)	66,7	> 52,5
• Cumulative Std. Dev. (03/2015 - 02/2016)	2,4	
Additional Characteristics		
Alkali Equivalent (%)	0,66	< 0,75

This document doesn't imply that any amount of cement has been supplied by the Company

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Chief of Quality Control

