



CEMENTOS ALFA, S.A.

PLANT: MATAPORQUERA

ER Certificate: ER-0572/1998



TECHNICAL CHARACTERISTICS CERTIFICATE

Cement

CEM I 52.5 R MA

Period

June, 2016

CE: 0099/CPR/A33/0831

TESTS	Results Average Value	Standard Spec. EN/UNE
Chemical Characteristics		
Loss on Ignition %	2,6	< 5,0
Insoluble Residue %	0,5	< 5,0
Sulphates (SO ₃) %	3,4	< 4,0
Chlorides %	0,01	< 0,10
Physical and Mechanical Characteristics		
Normal Consistency Water %	29,8	
Initial Setting Time min	164	> 45
Final Setting Time min	215	< 720
Soundness Le Chatelier mm	0,3	< 10
Specific Surface (Blaine) cm ² /g	5015	
Compressive Strength at 2 days MPa		
• Monthly average	39,7	> 30,0
• Cumulative average (07/2015 - 06/2016)	41,0	> 30,0
• Cumulative Std. Dev. (07/2015 - 06/2016)	2,2	
Compressive Strength at 28 days MPa		
• Monthly average	64,1	> 52,5
• Cumulative average (07/2015 - 06/2016)	65,8	> 52,5
• Cumulative Std. Dev. (07/2015 - 06/2016)	2,5	
Additional Characteristics		
C3A * (%)	4,5	
Alkali Equivalent (%)	0,69	< 0,75

* Corresponding to clinker composition
This document doesn't imply that any amount of cement has been supplied by the Company

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Chief of Quality Control

