



CEMENTOS ALFA, S.A.

PLANT: MATAPORQUERA

ER Certificate: ER-0572/1998



TECHNICAL CHARACTERISTICS CERTIFICATE

Cement

CEM I 42,5 R

Period

April, 2017

**N: 015/001358
CE: 0099/CPR/A33/0154**

TESTS	Results Average Value	Standard Spec. EN/UNE
Chemical Characteristics		
Loss on Ignition %	2,6	< 5,0
Insoluble Residue %	1,0	< 5,0
Sulphates (SO ₃) %	3,5	< 4,0
Chlorides %	0,01	< 0,10
Physical and Mechanical Characteristics		
Normal Consistency Water %	30,5	
Initial Setting Time min	168	> 60
Final Setting Time min	216	< 720
Soundness Le Chatelier mm	0,3	< 10
Specific Surface (Blaine) cm ² /g	3923	
Compressive Strength at 2 days MPa		
• Monthly average	34,0	> 20,0
• Cumulative average (05/2016 - 04/2017)	34,1	> 20,0
• Cumulative Std. Dev. (05/2016 - 04/2017)	2,1	
Compressive Strength at 28 days MPa		
• Monthly average	57,4	42,5 - 62,5
• Cumulative average (05/2016 - 04/2017)	57,3	42,5 - 62,5
• Cumulative Std. Dev. (05/2016 - 04/2017)	1,7	

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

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Chief of Quality Control

