



CEMENTOS ALFA, S.A.

PLANT: MATAPORQUERA

ER Certificate: ER-0572/1998



TECHNICAL CHARACTERISTICS CERTIFICATE

Cement

CEM I 42,5 R

Period

November, 2016

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

TESTS	Results Average Value	Standard Spec. EN/UNE
Chemical Characteristics		
Loss on Ignition %	2,7	< 5,0
Insoluble Residue %	0,4	< 5,0
Sulphates (SO ₃) %	3,2	< 4,0
Chlorides %	0,01	< 0,10
Physical and Mechanical Characteristics		
Normal Consistency Water %	30,1	
Initial Setting Time min	174	> 60
Final Setting Time min	223	< 720
Soundness Le Chatelier mm	0,2	< 10
Specific Surface (Blaine) cm ² /g	3863	
Compressive Strength at 2 days MPa		
• Monthly average	31,7	> 20,0
• Cumulative average (12/2015 - 11/2016)	34,6	> 20,0
• Cumulative Std. Dev. (12/2015 - 11/2016)	1,8	
Compressive Strength at 28 days MPa		
• Monthly average	56,0	42,5 - 62,5
• Cumulative average (12/2015 - 11/2016)	57,2	42,5 - 62,5
• Cumulative Std. Dev. (12/2015 - 11/2016)	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

