



CEMENTOS ALFA, S.A.

PLANT: MATAPORQUERA

ER Certificate: ER-0572/1998



TECHNICAL CHARACTERISTICS CERTIFICATE

Cement

CEM I 52.5 R MA

Period

April, 2016

CE: 0099/CPR/A33/0831

TESTS	Results Average Value	Standard Spec. EN/UNE
Chemical Characteristics		
Loss on Ignition %	2,5	< 5,0
Insoluble Residue %	0,6	< 5,0
Sulphates (SO ₃) %	3,4	< 4,0
Chlorides %	0,01	< 0,10
Physical and Mechanical Characteristics		
Normal Consistency Water %	30,0	
Initial Setting Time min	169	> 45
Final Setting Time min	222	< 720
Soundness Le Chatelier mm	0,1	< 10
Specific Surface (Blaine) cm ² /g	4995	
Compressive Strength at 2 days MPa		
• Monthly average	39,6	> 30,0
• Cumulative average (05/2015 - 04/2016)	40,9	> 30,0
• Cumulative Std. Dev. (05/2015 - 04/2016)	2,1	
Compressive Strength at 28 days MPa		
• Monthly average	64,1	> 52,5
• Cumulative average (05/2015 - 04/2016)	66,3	> 52,5
• Cumulative Std. Dev. (05/2015 - 04/2016)	2,4	
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

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

Chief of Quality Control

