



**CEMENTOS ALFA, S.A.**

**PLANT: MATAPORQUERA**

ER Certificate: ER-0572/1998



**TECHNICAL CHARACTERISTICS CERTIFICATE**

**Cement**

**CEM I 52,5 N (ma)**

**Period**

**January, 2025**

CE: 0099/CPR/A33/1148

TESTS	Results Average Value	Standard Spec. EN/UNE
<b>Chemical Characteristics</b>		
Loss on Ignition %	2,9	< 5,0
Insoluble Residue %	0,6	< 5,0
Sulphates (SO <sub>3</sub> ) %	3,2	< 4,0
Chlorides %	0,04	< 0,10
<b>Physical and Mechanical Characteristics</b>		
Normal Consistency Water %	30,5	
Initial Setting Time min	147	> 45
Final Setting Time min	199	< 720
Soundness Le Chatelier mm	0,3	< 10
Specific Surface (Blaine) cm <sup>2</sup> /g	4585	
Compressive Strength at 2 days MPa		
• Monthly average	37,7	> 20,0
• Cumulative average (02/2024 - 01/2025)	37,0	> 20,0
• Cumulative Std. Dev. (02/2024 - 01/2025)	1,6	
Compressive Strength at 28 days MPa		
• Monthly average	64,5	> 52,5
• Cumulative average (02/2024 - 01/2025)	62,4	> 52,5
• Cumulative Std. Dev. (02/2024 - 01/2025)	1,9	
<b>Additional Characteristics</b>		
C3A * (%)	2,5	
Alkali Equivalent (%)	0,67	< 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

