CEMENTOS ALFA, S.A. PLANT: **MATAPORQUERA**

ER Certificate: ER-0572/1998

TECHNICAL CHARACTERISTICS CERTIFICATE

Cement

CEM II/A-L 42,5 R BS-EN 197-1

N: 015/002144
CE: 0099/CPR/A33/1061

Period

September, 2026

TESTS		Results Average Value	Standard Spec. EN/UNE
Chemical Characteristics			
Loss on Ignition	%		
Insoluble Residue	%		
Sulphates (SO_3)	%	3,3	< 4,0
Chlorides	%	0,06	< 0,10
Physical and Mechanical Characteristics			
Normal Consistency Water	%	29,3	
Initial Setting Time	min	190	> 60
Final Setting Time	min	236	< 720
Soundness Le Chatelier	mm	0,1	< 10
Specific Surface (Blaine)	cm^2/g	4488	
Compressive Strength at 2 days	MPa		
• Monthly average		29,3	> 20,0
• Cumulative average (10/2025 - 09/2026)		30,3	> 20,0
• Cumulative Std. Dev. (10/2025 - 09/2026)		1,5	
Compressive Strength at 28 days	MPa		
• Monthly average		54,6	42,5 - 62,5
• Cumulative average (10/2025 - 09/2026)		55,9	42,5 - 62,5
• Cumulative Std. Dev. (10/2025 - 09/2026)		2,1	
Additional Characteristics			
C3A *	(%)	6,8	
Alkali Equivalent	(%)	0,79	

* Corresponding to clinker composition

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

Chief of Quality Control

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GRUPO CEMENTOS PORTLAND VALDERRIVAS