Cementos Portland Valderrivas, S.A. PLANT: **MONJOS**

ER Certificate: ER-0675/1999

TECHNICAL CHARACTERISTICS CERTIFICATE

Cement

III/A 42,5 N/SRC
CEM III/A-S 42,5 N

N: 015/002303
CE: 0099/CPR/A33/1258

Period

July, 2026

TESTS		Results Average Value	Standard Spec. EN/UNE
Chemical Characteristics			
Loss on Ignition	%	2,2	< 5,0
Insoluble Residue	%	0,7	< 5,0
Sulphates (SO_3)	%	3,3	< 4,0
Chlorides	%	0,03	< 0,10
Physical and Mechanical Characteristics			
Normal Consistency Water	%	32,0	
Initial Setting Time	min	192	> 60
Final Setting Time	min	303	
Soundness Le Chatelier	mm	0,1	< 10
Specific Surface (Blaine)	cm^2/g	5228	
Compressive Strength at 2 days	MPa		
• Monthly average		23,1	> 13,5
• Cumulative average (08/2025 - 07/2026)		21,0	> 13,5
• Cumulative Std. Dev. (08/2025 - 07/2026)		2,3	
Compressive Strength at 28 days	MPa		
• Monthly average		59,3	42,5 - 62,5
• Cumulative average (08/2025 - 07/2026)		57,1	42,5 - 62,5
• Cumulative Std. Dev. (08/2025 - 07/2026)		2,2	
Additional Characteristics			
C3A *	(%)	5,8	< 8,0
C3A + C4AF *	(%)	17,3	< 22,0

* 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