

QUALITY CERTIFICATE

DESIGNATION OF STANDARD	EN 197-1:2011
TYPE OF PRODUCT	ORDINARY POZZOLANIC CEMENT IN BULK CEM IV/B(P) 32,5N
DATE OF REPORT	13.09.2019

CHEMICAL SPECIFICATIONS						
Property	Test Reference	Requirements	Results		Unit	Uc.
			Min	Max		
Constituents (P)	CEN/TR 196-4	≥36,0-≤55,0	≥ 38,0	≤ 54,0	%	-
Sulfate Content (as SO ₃)	EN 196-2	≤ 3,50	≤ 3,45		%	-
Chloride Content (Cl)	EN 196-2	≤ 0,1	≤ 0,040		%	-
Pozzolanicity	EN 196-5	Satisfies The Test	Yes		-	-
Water Soluable Chromium(Cr6+)	EN 196-10	≤2,0	≤2,0		ppm	-
PHYSICAL SPECIFICATIONS						
Initial Setting Time	EN 196-3	≥ 75	≥ 120		min	-
Soundness (Expansion)	EN 196-3	≤ 10,0	≤ 7,0		mm	-
Blaine Surface	EN 196-6	-	≥ 4000		cm ² /g	-
-	-	-	-	-	-	-
DURABILITY SPECIFICATIONS						
Early Strength (2 Days)	EN 196-1	≥ 10,0	≥ 11,5		MPa	-
Standard Strength (28 Days)	EN 196-1	≥ 32,5-≤ 52,5	≥ 33,5		MPa	-
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EXPLANATIONS						
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Plant Manager



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