

QUALITY CERTIFICATE

DESIGNATION OF STANDARD	EN 197-1
TYPE OF PRODUCT	ORDINARY PORTLAND CEMENT IN BULK CEM I 42,5 R (Cr ⁺⁶ free)
DATE OF REPORT	10.07.2018

CHEMICAL SPECIFICATIONS

Property	Test Reference	Requirements	Results		Unit	Uc.
			Min	Max		
Insoluble Residue (I.R.)	EN 196-2	≤ 5,00	≤ 2,50		%	-
Loss On Ignition(L.O.I.)	EN 196-2	≤ 5,00	≤ 4,75		%	-
Sulfate Content (as SO ₃)	EN 196-2	≤ 4,00	≤ 3,85		%	-
Chloride Content (Cl ⁻)	EN 196-2	≤ 0,1	≤ 0,050		%	-
Water-Soluble Chromium (VI)	EN 196-10	≤ 2,0	≤ 1,90		ppm	-
-	-	-	-	-	-	-

PHYSICAL SPECIFICATIONS

Initial Setting Time	EN 196-3	≥ 60,0	≥ 120		min	-
Soundness (Expansion)	EN 196-3	≤ 10,0	≤ 5,0		mm	-
Blaine Surface	EN 196-6	-	≥ 3000		cm ² /g	-
-	-	-	-	-	-	-

DURABILITY SPECIFICATIONS

Early Strength (2 Days)	EN 196-1	≥ 20,0	≥ 22,0		MPa	-
Standard Strength (28 Days)	EN 196-1	≥ 42,5-≤ 62,5	≥ 45,0		MPa	-
-	-	-	-	-	-	-

EXPLANATIONS

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