

ANALYSIS CERTIFICATE

Cement Type: CEM I 52.5 R White

Chemical & Physical Properties

Quality Control Departement

Cement Characteristics	Standard	Result	Specifications	Units
SiO ₂	EN 196-2	22.53	-	%
Al ₂ O ₃		4.19	-	%
Fe ₂ O ₃		0.20	-	%
CaO		66.81	-	%
K ₂ O		0.03	-	%
Na ₂ O		0.08	-	%
Alkalis content "Na ₂ O Equ."		0.10		%
Loss In Ignition	EN 196-2	2.30	≤ 5.0	%
F.CaO	EN 196-2	2.40		%
Magnesia (MgO)	EN 196-2	0.33		%
Sulphur Trioxide (SO ₃)	EN 196-2	3.24	≤ 4.0	%
Chloride	EN 196-2	0.030	≤ 0.10	%
Insoluble Residue	EN 196-2	0.40	≤ 5.0	
Whiteness	(CIE 1931) Y	86.00		%
	L*	94.27		%
	(Hunter scale) L	91.70		%
Fineness Blaine (cm ² /g)	EN 196-6	4909		cm ² /g
Initial Setting time (min)	EN 196-3	110	≥ 45	min
Final Set (min)	EN 196-3	145		min
Expansion "Le Chateller" (mm)	EN 196-3	2.0	≤ 10	mm
C3S	Bogue	53.24		%
C2S		24.73		%
C3A		10.77		%

Compressive Strength

	Standard	Result	Limits	Units
2 days	EN 196-1	37.00	≥ 30	N/mm ²
28 days		63.60	≥ 52.5	

The above results complying with requirements EN 197-1

Approval by:
Lab. & Q.C.