

ANALYSIS CERTIFICATE

QUALITY CONTROL DEPARTMENT



Cement Type: **CEM I 52,5 N White**

COMPRESSIVE STRENGTH

CEMENT CHARACTERISTICS	STANDARD	RESULT	SPECIFICATIONS	UNITS
2 days	EN 196-1	37.2	≥ 20	N/mm ²
7 days		45.07		
28 days		65.28	≥ 52.5	

CHEMICAL & PHYSICAL PROPERTIES

CEMENT CHARACTERISTICS	STANDARD	RESULT	SPECIFICATIONS	UNITS
SiO ₂	EN 196-2	22.90	-	%
Al ₂ O ₃		2.89	-	%
Fe ₂ O ₃		0.20	-	%
CaO		66.28	-	%
K ₂ O		0.03	-	%
Na ₂ O		0.10	-	%
Alkalis content "Na ₂ O Equ."		0.12		%
F.CaO	EN 196-2	2.40		%
Loss in ignition	EN 196-2	2.95	≤ 5.0	%
Sulphur Trioxide (SO ₃)	EN 196-2	2.84	≤ 4.0	%
Chloride	EN 196-2	0.050	≤ 0.10	%
Insoluble Residue	EN 196-2	0.91	≤ 5.0	%
Cr+6	EN 196-10	0.0005	≤ 0.0002	%
Whiteness (CIE 1931)	Y	86		%
		L*	94.27	
Residue in 0.045 mm Sieve		2.8		%
Residue in 0.090 mm Sieve		0.1		%
Fineness Blaine	EN 196-6	3958		cm ² /g
Initial Setting time	EN 196-3	150	≥ 45.0	min
Final Set	EN 196-3	180		min
Expansion "Le Chatelier"	EN 196-3	1.0	≤ 10.0	(mm)

The above results complying with requirements EN 197-1/2011

Approval by:
LAB. & Q.C.

