

# 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 <sup>2</sup>
7 days		45.07		
28 days		65.28	≥ 52.5	

## CHEMICAL & PHYSICAL PROPERTIES

CEMENT CHARACTERISTICS	STANDARD	RESULT	SPECIFICATIONS	UNITS
SiO <sub>2</sub>	EN 196-2	22.90	-	%
Al <sub>2</sub> O <sub>3</sub>		2.89	-	%
Fe <sub>2</sub> O <sub>3</sub>		0.20	-	%
CaO		66.28	-	%
K <sub>2</sub> O		0.03	-	%
Na <sub>2</sub> O		0.10	-	%
Alkalis content "Na <sub>2</sub> O Equ."		0.12		%
F.CaO	EN 196-2	2.40		%
Loss in ignition	EN 196-2	2.95	≤ 5.0	%
Sulphur Trioxide (SO <sub>3</sub> )	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 <sup>2</sup> /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.

