

# 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	28.0 - 33.0	≥ 20	N/mm <sup>2</sup>
7 days		45.0 - 55.0		
28 days		55.0 - 65.0	≥ 52.5	

## CHEMICAL & PHYSICAL PROPERTIES

CEMENT CHARACTERISTICS	STANDARD	RESULT	SPECIFICATIONS	UNITS
SiO <sub>2</sub>	EN 196-2	22.56		%
Al <sub>2</sub> O <sub>3</sub>		2.70		%
Fe <sub>2</sub> O <sub>3</sub>		0.20	-	%
CaO		67.50	-	%
K <sub>2</sub> O		0.03	-	%
Na <sub>2</sub> O		0.12		%
Alkalis content "Na <sub>2</sub> O Equ."		0.14		%
F.CaO	EN 196-2	2.60		%
Loss in ignition	EN 196-2	3.57	≤ 5.0	%
Sulphur Trioxide (SO <sub>3</sub> )	EN 196-2	2.63	≤ 4.0	%
Chloride	EN 196-2	0.048	≤ 0.10	%
Insoluble Residue	EN 196-2	0.70	≤ 5.0	%
Cr <sup>+6</sup>	EN 196-10	0.00006	≤ 0.0002	%
Whiteness (CIE 1931)	Y	≥ 85.7		
	L*	≥ 94.27		
Residue in 0.045 mm Sieve		3.1		%
Residue in 0.090 mm Sieve		0.2		%
Fineness Blaine	EN 196-6	4701		cm <sup>2</sup> /g
Initial Setting time	EN 196-3	105	≥ 45.0	min
Final Set	EN 196-3	145		min
Expansion "Le Chatelier"	EN 196-3	1.0	≤ 10.0	(mm)



Approval by:  
LAB. & Q.C.