

ANALYSIS CERTIFICATE

QUALITY CONTROL DEPARTMENT



Cement Type: **CEM II/B-LL42,5 N White**

COMPRESSIVE STRENGTH

CEMENT CHARACTERISTICS	STANDARD	RESULT	SPECIFICATIONS	UNITS
2 days	EN 196-1	18.0 - 25.0	≥ 10	N/mm ²
7 days		30.0 - 40.0		
28 days		45.0 - 58.0	$42.5 \geq R \geq 62.5$	

CHEMICAL & PHYSICAL PROPERTIES

CEMENT CHARACTERISTICS	STANDARD	RESULT	SPECIFICATIONS	UNITS
SiO ₂	EN 196-2	18.20	-	%
Al ₂ O ₃		3.00	-	%
Fe ₂ O ₃		0.19	-	%
CaO		64.30	-	%
K ₂ O		0.02	-	%
Na ₂ O		0.06	-	%
Alkalis content "Na ₂ O Equ."		0.07		%
Loss in ignition	EN 196-2	12.5		%
MgO	EN 196-2	0.54		
Sulphur Trioxide (SO ₃)	EN 196-2	1.90	≤ 3.5	%
Chloride	EN 196-2	0.039	≤ 0.10	%
Cr+6	EN 196-10	0.00005	≤ 0.0002	%
Whiteness (CIE 1931) Y		≥ 86.0		%
L*		≥ 94.3		
Residue in 0.045 mm Sieve		6.6		%
Residue in 0.090 mm Sieve		0.69		%
Fineness Blaine	EN 196-6	5100-5300		cm ² /g
Initial Setting time	EN 196-3	150 - 180	≥ 60.0	min
Final Set	EN 196-3	190 - 230		min
Expansion "Le Chatelier"	EN 196-3	1.0	≤ 10.0	(mm)

Approval by:
LAB. & Q.C.

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

